TECHNICAL REPOR



SUMMARY OF SPECIFICATION REQUIREMENTS FOR MILITARY FABRICS

by

Testing Methodology Group

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U. S. Army Natick Laboratories

Natick, Massachusetts

CLOTHING & ORGANIC MATERIALS LABORATORY

Textile Series Report No. 102

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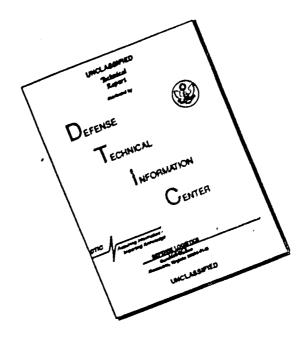
SUMMARY OF SPECIFICATION REQUIREMENTS FOR MILITARY FABRICS

Prepared by

Testing Methodology Function

Quality Assurance Branch, Standardization Division

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FOREWORD

Since 1957 when this listing of Military specification requirements was last prepared and issued, the supply of copies has been exhausted. In view of the many continuing requests for copies of this report and due to the many changes which have occurred, it has become necessary to prepare a revised edition.

The present report supersedes Textile Series Report No. 102 dated December 1957.

Since the original issue in 1951 and the subsequent superseded issue of 1957 many changes have occurred in textile specifications. The direct effort at standardization has resulted in the combination and deletion of many specifications. New specifications representing the development of the synthetics to meet specific Military requirements have been added. In addition, many major changes have been implemented across-the-board under the Handatory Contractor Inspection Program such as complete Quality Assurance Provisions in all specifications under the Point System.

The task of revising specifications requires that one keep abreast of changes in the state of the art, to add innovations such as the "Point System" in facilitating procurement, to standardize and improve on test methods, and to revise requirements and new requirements to meet changing Military needs.

In the use of this report, it is important to take into account the fact that specification requirements are subject to change. Such changes are reflected by issuance of amendments, new or revised specifications and/or interim procurement documents, or by deviations cited in Invitations to Bid. In this respect, it is essential that Invitations to Bid be carefully reviewed, as requirements stated at the time of actual procurement may supersede specification requirements stated herein.

STEPHEN J. KENNEDY Director Clothing % Organic Materials Laboratory

Approved:

W. M. MANTZ, Brigadier General Commanding U.S. Army Natick Laboratories

DALE H. SIELING Scientific Director U.S. Army Natick Laboratories

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ABBIRACT

Specification requirements for military fabrics and related military textile materials such as felts and cordage are summarized in tables which give details for yarn, texture, finish and key performance parameters. Included are finishing, after-treatment specifications and test methods.

This report brings up to date and adds to the data contained in Taxtile Series Report No. 102 dated December 1957 (Bevised).

CHERRAL MOTES

COTTON CLOTHS - WOVEN

The following parenthetical numbers are utilised throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) To be specified.
(2) Monfibrous, etc., restrictions.
(3) See specification for applicable tolerances.
(4) Colormatching.
(5) Preproduction sample.
(6) Restrictions on use of sulfur dyes.
(7) See specification for weave diagrams and instructions.
(8) Yaras of grade and ply and length of staple to meet requirements.

(9) Formula approval required.
(10) Bid sample and laboratory report.
(11) Width exclusive of selvage.
(12) Width inclusive of selvage.
(13) See specification for requirements after laundering.
(14) See specification for woven design and insignia requirements.
(15) Use of dyestuffs which would cause deterioration in storage or cause dermatitis on prolonged skin contact is prohibited.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

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HOMENCLATURE	02/	sight Sq. Yd.	Weevs	width inch	Yers Ply	Yerne Per inch Min,	Greating Strength Lb. Min.	Air Permee- bility	Shrink- ego Mex.	Seem Effic- iency	Dynamic Absorp- tion Max.	Hydro- stetic Pressure low range	Weter Permee- bility Max.	Point Value Mex.
						(5050)	(5100)	(5450)	(5550)	(51 IO)	(5600)	(5514)	(5516)	
Derect, Table Cottes	Min	Mex			WF	WIF	WF		V 7					
Type A Type B Type B Type B Type B Type F	4.4 5.2 5.3 5.5 5.5	: 25 : 25 : 25 : 25 : 25 : 25 : 25 : 25	Conserva- tive Patterns (1)	केर्यक्षात्म स्टब्स् इ.स.च्याच्याच्या		116 135 135 78 76 78 76 78 78	45 50 50 55 50 55 64 74 64 74 64 74							
Type I - Henry H = 17 x 17 in. Type II - Henry H = 17 x 17 in. Type II - Venen's 11 x 11 in.	2.0		Plain "	-		(3) 93 78 93 78	30 25 30 25							
Type I - Hus Type II - Bed	2.2 2	± 5% ± 5%	Plain			(3) 51 51 57 57	34 20 34 20							

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness teoring strength, yorn size, etc.)	NOTES (Not Specification Hequirements)
CCC-D-71 Type A Type B Type C Type D Type E Type F	(2) Elseched and mercerized. Types D, E, and F finished to prevent linting after repeated washings, and to prevent loss of luster and body for mercerization.			
DDD-H-714 Type I Type II	(2) Mercerized and singed.	Color (1) (6). Standard sample available for chade (4). Colorfastness - Standard sample available (5610-5600-5651-5680-5682).	(5)	
DDD-H-74 Type I Type II		Type I - Blue, with the usual bandanna hardker- chief designs in white. Type II - Red, with the usual bandanna handker- chief designs in white. Colorfastness - (5660- 5610-5651).		

NOMENCLATURE	Wei Oz./S		Weave	Width Inch	Yorn Ply	Per	lia.	Brec Stre Lh.	ngth Mia.	Air Permen- bility	***	ex.	Effic- iency	Dynamic Absorp- tion Mex.	etatic Proceure low range latin,	Water Permee- bility Max.	Point Value Max.
	1	44	<u> </u>				50)			(5450)	_	_	(5) 10)	(5500)	(8514)	(2216)	
Washcloth, Terry,	Min	MEX			WF		F	W	•		V	F					
TOD-W-806	16 (a dozen)		Single loop terry (7)	•	2 or 1 (1)	68 ⁽	3) 35	40	35								
Combrie CCC-C-81	2.4	•	Plain	(1)	••	200	90	50	32		5%	5%					
Satsen; Cotton CCC-S-91a																	
Type I - Low Count	3.2	3.8	5-barness	(1)		66	98	30	30								
Type II - Medium Count	3•3	3.8	satin			84	130	35	40								
Pajama-Check, Cotton CCC-P-96 Type I = 80 x 80 Type II = 88 x 88	3.25 3.50		(7) Pajma check	3 5½ 32-3/	1 1	85 94	72 80	40 52	26 35		15 15	1% 1\$					
Scrim: Curtain CCC-S-121	2.8	-	Plain	36 <u>±</u> 1	2 2	24	22	30	24								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	MOTES (Not Specification Requirements)
DDD-W-80ъ	(2) Desized and bleached white.	Color - Cloth shall be bleached white.		
coc-c-81	Bleached and sized to a cambric finish.	Color (1).		
CCC-S-9la Type I Type II	(2) Clear, smooth, high luster finish.	Color (1). Colorfastness - (5660- 5610).		
CCC-P-96 Type I Type II	(2) Desized and calendered to produce a soft, smooth, nainsook finish.	Bleached and tinted bluish white.		
CCC-S-121		Color (1).	Designs (1).	

NOMENCLATURE	Weight Oz./Sq.Y	Weeve V.	Width	Yo	ra ly	Min.	ch :	Lb. I	gth din.	Permee- bally	Mex.	Effic- lericy	Dynamic Absorp- tion Max.	etatic Pressure low range Min,	Nex.	Point Value Max.	
	<u> </u>				_	(5050				(5450)	(5550)	(5110)	(5500)	(5514)	(5516)		l
Bedspreed, Cotton Or	Min. M	IX.		W	F	WF	•	W	F		1						
Cotton/Repron Pland	(of finished																l
Type I - Crinkis Size 1 - 63 x 97 Size 2 - 63 x 106 Size 3 - 72 x 97 Size 4 - 72 x 106	24.0 - 25.5 - 27.0 - 29.0 -			1 1 1 1	1	72 in plain ground 62 in crinkle strips		50 50 50 50	50 50 50 50								
Type II - Dimity 81 x 103	32.5 -	(7)		1	1	70	60	75	45								
Type III - Herring- bone Stripe 56 x 86	23.0 -	(7)		ı	1	68 ;	38	80	50								
Type IV - Corded Size 1 - 63 x 103 Size 2 - 76 x 103 Size 3 - 76 x 113 Size 4 - 90 x 113	38.0 - 46.0 - 47.0 - 57.0 -	(7) (<u>7)</u>		1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	65 incl. the cotton	35 35 35 35	85 85 85 85	70 70 70 70								

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness teoring strength, yorn size, etc.)	NOTES (Not Specification Requirements)
DID-B-151e Tyr: I Size 1 Size 2 Size 3 Size 4 Type II Type III Type IV Size 1 Size 2 Size 3	(2)	Type I - Color (1). Colorfastness - (5660- 5612-5600). Type II - Bleached white. Marked for medical procurement (1). Type III - Color (1). Colorfastness - (5660- 5612-5600). Type IV - Color (1). Colorfastness - (5660- 5612-5600).	(5)	Standard sample available as guide. Bedspreads shall be made of cotton/rayon bland when so specified by purchaser.

NOMENCLATURE	Wel Oz./1	ght iq. Yd.	Weave	Width Inch		'era Piy	Per	in.	Lb. I	Min.	Air Permec- bility	egi M	CX.	Effic- ioncy	Dynamic Absorp- tion Max.	stetit Process Insurange Min.	Weter Permos- Wity Max.	Point Value Max.
	L					,		50)			(5450)			(5110)	(5500)	(5514)	(5518)	
Cloth, Cotton, Chambrer CCC-C-2312	Min	Mex			W	F	W	F	W	F		¥	P					
Type I - Mercerized Style A - 3.0 or. Type II - Unmercerize	3.0	•	Plain	(1)	1	1	90	75	45	38		25	25	85\$				26.00
Style A - 5.3 or. Style B - 4.3 or.	5.3 4.3	-	**	(1) (1)	1	1	67 68	58 50	75 65	52 34				85≸ 85≸				32.00 32.00
Sheet, Red, Cotton CCC-8-281f, Amd. 2																		
Type I - 140 Type II - 128 Type III - 180	4.5	:	Plain .	(1) (1)			74 60	66 60	70 55	70 55								(1) (1)
(Percale)	3.5	•	#	(1)			92	86	60	60								(1)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness teoring strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-231f Type I Style A Type II Style A Style B	(2) Type I - Singed, desized and mercerized, with a clear lustrous finish (standard sample available). Type II - Regular commercial finish.		filling for Type I. Natural white filling	Intended Use - For the fabrication of clothing items.
DDD-S-281f Type I Type II Type III	(2)	Color (1). Colorfastness - Standard sample available (5600).	1 45 in. 72 2 54 in. 90 3 54 in. 99 4 63 in. 99 5 63 in. 106	Form in. in. in. in. in. in. in. in. in.

NOMENCLATURE	We Oz./1	lght lq. Yd.	Weave	wieth inch	Yer		Yerne Par Inc Min.	A 31	reaking trength .b. Min,	Air Permee- bility	Shrii age Ma:	i	Effic-	Absorp- tion	Hydro- static Pressure low range Min.	Water Permea- bility Max.	Point Value Max.
							(5050	1	5100	(5450)	(555	50)	(5110)	(5500)		(5516)	
Cheeseloth; (For) Marin: Purposes [Remarks and Geooris] 100-0-501, And. 2	Min	Mex			W	F	WF		WF		٧	P					
Type I - Bleached Class A - Short																	
lengthe or rements	Ì	2 <u>).</u>	Plain	(3) 20-40													
lengths Ryre II - Ushlenchrd Claus A - Short lengths or	ż	5 }	•	20-40													
resments	1	2		20-40													
Class B - Long lengths	}	21/2		20-40													
Cloth, Cotton, Uniform Will, Alabi-Weight Mil-2-3000																	
Type I = 5.0 on. Combad	4.5	5.5	2 rt. 2 tv:111	(1)	1	1 .	126 6	4 10	.00 55	F	reshr 1\$		80%			f	30.00 or dyed
Type II = 5.5 or. Carded	5.5	6.0	2 rt. 1 tvill	(1)	1	1	72 6	4	50 60		1\$	1\$	80%				35.00 r white
Type lill - 5.5 os. Combed	5.5	6.0	3 rt. 1 tvill	(1)	1 .	ì	116 5	8 1	.5 0 50		15	1\$	80 %				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
DOD-C=301 Type ii Class A Class B Type iii Class A Class B	Bleached or unbleached (1).		Class A - short lengths shall be of not less than 1 yard. Class B - long lengths shall be of not less than 10 yards.	
MIL-C-3C4D Type I Type II Type III	(2) Singed and mercerized, with a clear, lustrous finish.	Color (1) - Standard sample available (4-6), Colorfastness - Standard sample available - (5610-5600-5651-5680-5682-5660),		Intended Use - Type I - In the manufacture of shirts. Type II - For pockets and various component parts. Type III - For utility shirts worn by female personnel of the Marine Corps.

NOMENCLATURE		ight ig. Yd.	Weave	Width		ora Hy			Brea Stre Lb.	neth	Air Permec- bility	-	isk- ex.	Seem Effic- lency	Dynamic Absorp- tion Mex.	Hydro- ototis Prossure our range Mile.	Water Permis- bility Max.	Point Value Max.
							(50	50	(51	00)	(5450)	(5)	550)	651101	(5500)	(5514)	(55 (6)	
Cloth, Cotton, Bilesia MIL-C-326E	Min	Max		4	W	F	W	F	W	F			7					
Type II - 5.0 cm. Type III - 4.0 cm. Type III - 6.0 cm.	-	:	1 2 right or left hand twill	(11) 35 35 35 35	•	:	72 72 72	72 72 78	60 50 65	60 30 90	P	resh esi esi esi	role as as	80% 80% 80%				26.00 for dyed 32.00 or white
Cloth, Balloon, Cotton MH-C-3328, And. 1(GL)																	
Class 1 - Unbleached Type I - 3.9 oz. Type III - 2.25 oz. Type IV - 3.6 oz.		3.90 2.25 3.60	Plain "	(1) (1) (1)	1 1 1	1 1 1	124 116 96	118 124 100	70 40 55	70 40 55	Pr	15 15 15 15	15 15 15	1) 85% 85% 85%				30.00 30.00 30.00
Class 2 - Dyed and finished Type I - 3.9 or. Type III - 2.25 or. Type IV - 3.6 or.	:	3.90 2.25 3,60	Plain "	(1) (1) (1)	1 1 1	1 1 1	126 120 100	112 120 95	63 35 50	63 35 50		15 15 15	15 15 15	85\$ 85\$ 85\$	25(13)	30(13)		25.00 25.00 25.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			teoring strength, yarn size, etc.)	(Not Specification Requirements)
MTI=C-326E Type I Type II Type III	(2) Singed and desized.	Color (1) - Standard sample evailable (4-6) Colorfartness - Standard sample evailable - (5622- 5680-5651).	Width of each selvage shall not exceed to in.	Intended Use - In clothing and equipage items for personnel.
MIL-C-332E Class 1 Type I Type III Type IV Class 2 Type I Type III Type III Type III	(2) Class 1 - Unbleached. Class 2 - Singed before dyeing and finishing. Type I, Class 1, Types III & IV, Classes 1 and 2 - when specified, cloth shall be given a water- repellent finish. Type I, Class 2 - when specified, cloth shall be given an approved durable water-repellent treat- ment. Initial spray rating shall be 90, 90, 80 min. (5526). Down and feather retention - "satisfactory" (5530).	Color - Class 2 (1)- standard sample available (4-6). Colorfastness - Class 2 - standard sample available (5660-5622-5610-5600).		Intended Use - In the manufacture of clothing and equipage items. Type I - In sleeping bags.

7.

NOMENCLATURE		ight Bq. Yd.	Weave	Wigh Inch	Yer Pt		Min.	Lb.	Min.	Air Permec- bility	Ma	IX.	Effic- lency	Absorp- tion Max.	Pressure low range Min.	Pormos- bli.ly Max.	Poizt Value Max.
							(5050)			(5450)	(55	501	(5110)	(5500)	(5514)	(5516)	
Cloth, Wind Resistant, Will and Poplin, Cotton Rul-C-342E	Min	Мех			W	F	WF	W	F		٧	r					
Type I - Tvill Class C - Fire, vater, milder res.	5.8	7.0	2 right 2tvill	(1)	2	2	185 90	160	70	3-7	reshr 2\$	unk 2%	60\$		40		58 .0 0
Type II - Poplin Class A Plain fir. Class B - Querpel	5.5	6.5	Plain	(1)	2	1-2	106 52	125	70	16	25	2%	80%				32.00 white
treated	6.0	7.0	•	(1)	2	1-2	106 52	116	60	-	25	25	80\$	20(13)	35(13)		

NOMENCLATURE	FINISH	SHADE ANO COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, years size, atc.)	NOTES (Not apacification Requirements)
MII-C-342E Type I Class C Type II Class A Class B	(2) Singed, desized, mercerized, and dyed. Use of resin pigments in dyeing or finishing of Type II is prohibited. Type I, Class C shall be given an approved durable fire resistant treatment. Average time of after-fisme - 2.0 sec. max. Average length of char - 5.5 in. max. Initially and after 3 cycles of laundering (5903-5556). The cloth shall be given an approved durable water repellent treatment. Type II, Class B chall be given an approved Quarpel-type water repellent treatment. Spray rating - 90, 90, 80 min. (5526). Use of materials other than approved vater repellents and sodium acetate buffer (and acetic acid) is prohibited. Shall show no wetting by n-tetra-deceme initially or after 15 launderings (h.h.2). PH: Type I, Class C - 5.5 min. Type II, Class B - 6.5-8.5 (2811).	Color (1) - standard sample available (4-6). Colorfastness - standard sample availatie. Type 1 Class C - (561-5671). Type II, Classes A & B - (5610-5600-5651-5622-5680-5660).	preproduction sample approval required when	of clothing which involve pro- longed or frequent contact wit the skin.

NOMENCLATURE	Weight Oz./8q.Yd.	Weeve	Width Inch	Yo		Yerns Per Inch Min,	Breaking Strength L.b. Min.	Permes-	Shrink— aga Max.	Effic-	Dynamic Absorp- tion Max,		Weter Permoo- Mity Mex.	Point Value Mex.
1						(5050)	(5100)	(5450)	(5550)	(5110)	(5500)	(5514)	(55 (C)	
Cloth, Cotton, Awning	Min Mex	L		w	F	WF	WF				10000			
Type I - Awaing Cloth, Tarn-dyed Stripes Class 1 - 8,42 os. Class 2 - 10,00 os. Class 3 - 12,00 os. Class 4 - 15,00 os.	8.4 10.0 12.0	2 sin. W- yarns, sin. 1 2 ply W.& P	(3) 31 31 31 28	1 2 2 2	1 2 2 2	61 28 72 36 72 38 68 34	150 70 180 90 210 90 240 120	7 8 10	3) .2 .6 .3	:			20.32 25.40 25.40 25.40	•
Type II - Avning Cloth, Painted Stripe or Painted (Tinted) Solid Colors.	13.0	**	28]	2	2	54 42	170 120	10).5				25.40	
Type III - Awning Cloth, Piece Dyed	10.1	**	28 <u>1</u>	2	2	54 42	180 110	9	J. 0				25.40	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yorn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-h06a Type I Class 1 Class 2 Class 3 Class 4 Type III Type III	Mildev resistant. After weathering, cloth shell show no increase in -41dev growth (5804-5760). Clota shell show mex. loss of 15% of breaking strength after weathering and mildew test. Water resistance of untreated (unfinished) cloth shell have not more than a leakage of 50 cc. at pressure indicated in table using test method indicated in specification, para. 3.7.	Color (1). Colorfastness - (5651- 5760). Pattern (1).		

NOMENCLATURE	Weight Oz./Sq. Yd.	Weave	Width	Yarn Ply	Yorns Per Inch Min.	Breaking Strength Lb. Min.		Shrink- age Max.	Seam Effic- iency		Water Permea- bility Max.	Point Value Max.
					(5050)	(5100)	(5450)	(5550)	(5110)	(5500)	(5516)	
Cloth, Duck, Cotton, Unblemeded, Filed-Terms Army And Numbered CCC-C-\$196	Min Max		.	WF	WF	WF		W P				
Type I - Humbered												
Duck, Hard Facture: 12/0 8/0 2/0 1/0 1 2 3 4 5 6 8 10 11 12	48.00 - 40.00 - 31.90 - 30.31 - 28.71 - 27.12 - 25.53 - 23.93 - 20.74 - 17.55 - 14.35 - 12.75 - 11.26 -	Plain	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	98 14 7 6 5 4 5 4 4 3 3 3 3 3 3 2 2	20 12 26.5 12. 24 16 24 16 26 19 26 19 27 20 31 22 35 25 43 25 45 34 45 35	800 430 5 750 600 465 435 450 405 440 370 420 345 330 375 3375 300 345 285 335 250 285 210 245 160 240 140 195 120	2 2 2 4					40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00
Medium Texture: 1 2 3 4 5	28.71 - 27.12 - 25.53 - 23.93 - 22.33 - 20.74 -	** ** ** ** ** ** **	(1) (1) (1) (1) (1)	5 5 4 5 4 3 3 3	26 15 26 15 29 15 29 17 34 18 34 18	425 345 410 320 370 315 350 290 315 285 305 250						40.00 40.00 40.00 40.00 40.00
Type III - Army Duck 8.25 9.95 12.29 14.77 15.90 18.48	8.25 - 9.85 - 12.29 - 14.77 - 15.90 - 18.48 -	** ** ** **	(1) (1) (1) (1) (1) (1)	2 2 2 3 3 3 3 4	60 58 52 40 44 34 44 28 45 34 42 28	125, 120 160 110 210 130 235 175 245 200 315 200	14 14					40.00 40.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness	NOTES
			tearing strength, yarn size, etc.)	(Not Specification Requirements)

CCC-C-419b Type I Hard Texture Hedium Texture Type III

(2) Unbleached.

Intended Use - In febrication of tentage and equipage items.

HOMENCLATURE	Well Oz./S	ght iq. Yd.	Wedve	Width Inch		orn Hy	Per	inch	Lb. M	in.	Air Permea- bility	Shrink- age Max. (5550)	Effic- lency	Dynamic Absorp- tion Max. (5500)	Weter Permes- bility Mex. (5516)	Point Value Mex,
Cloth, Denim, Cotton, Shrunk and Unshrunk	Min	Max	<u> </u>	L	W	F	w		W	_		WP				
Type I Class 1 - Unshrunk	8.04	-	2 right twill	(1)	1	1	62	39	145	. •	P	reshrunk				40.00
Class 2 - Shrunk	8.78	-	3-harness	(1)	1	1	63	42	145	58		2% 2%				40.00
Type II Class 1 - Unshru ': Class 2 - Shrunk	8.95 9.75	:	**	(1) (1)	1	1	66 67	43 46	150 150	65 70	P	reshrunk 2 \$ 2 \$				40.00 40.00
Type III Class 1 - Unshrunk Class 2 - Shrunk	9.85 10.97	:	**	(1) (1)	1	1	68 69	42 45	167 167	70 75	P	reshrunk 2% 2%				40.00 40.00
Type IV Class 1 - Unshrunk Class 2 - Shrunk	11.06 12.30	•	11	(1) (1)	1	1	70 71	42 45	177 177	85 90	F	reshrunk 2% 2%				40.00 40.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-b21s Type I Class 1 Class 2 Type II Class 2 Type III Class 2 Type III Class 2 Type IV Class 1 Class 2	(2) pH; 8.0-10.0.	Color (1) - Standard sample available (4). Style A - white-back cloth with dyed warp yarns & white or tinted filling yarns. Style B - dyed warp & filling yarns. Colorfastness - Standard sample available - (5660-5630-5630-5610-5631).		Intended Use - In the manufacture of clothing items.

NOMENCLATURE	Weld Oz./\$		Weave	Width Inch	Yara Pty	Yer Per i Mic	nch	Brac Stree Lb. 1	ngth	Air Permea- billy	Shri age Ma						Point Value Max.
						(305	101			(5450)	(55	50)	(5110)	(5500)	(5514)	(5516)	
Blanket, Bed (Other Than Wool) - (See also under Himsd Fiber Cloth DDD-B-421e	Min'	Max			WF	w	F	W	F		w	P		-			
Type I - All cotton Class 1 - Twill, double filling Size 1 - 30x40 in. Size 2 - 60x84 in. Size 3 - 66x84 in. Size 4 - 66x90 in.	3.0# 3.3#	3.2#	(7) (7) (7) (7)	:	(8) (8) (8) (8)	30 37 37 37	35 36 36 36	23 30 30 30	15 25 25 25 25		115 115 115 115	64 64 64					
C is 2 - Flain, single filling Size 1 - 70x84 in. Size 2 - 72x90 in.			(7) (7)	:	(8) (8)	35 27	24 28	28 27	15 17		12% 12%	6% 6%					
Type II - Cotton warp wool filling (see und Mixed Fiber Cloths) Type III - Blended ' nylon-wool-rayon- cotton and other fibers (see under Mixed Fiber Cloths)																	

Cloth, Cotton, Muslin									
(Mercerised)									
CCC-C-00422a(GSA-FSS) 5.0	-	Plain	35-36	1	1	53	46	60	60

Preshrunk

28.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
DDD-B-#2le Type I Class 1 Size 1 Size 2 Size 3 Size 4 Class 2 Size 1 Size 2 Type III Type III	(2) Nap and hand - standard sample available.	Color - Type I (1) - standard sample avail- able (4). The wool shall be so selected as to avoid the presence of black fibers. Colorfastness - Type I - standard sample available (5600-5651). See specification for in- formation on marking (1).	Wool grade not lower than 44's, U.S.Std.	
	(2) Mercerized, with a crisp, lust- rous finish - standard sample available. No change in appear- ance or hand after three launder- ings (5550).	Color (1) - standard sample available (4-6). Colorfasumess - standard sample available - (5660-5610-5680-5651).	(5)	Intended Use - As dress goods and suiting material.

Cloth, Birdaeye And Cocc-A25h Min Max W F	NOMENCLATURE		ight iq. Ya.	Weave	Width Inch		ora Ply	Per			agtà	Air Permee- bility	991	rink- ox.	Seam Effic- iency	Dynamic Absorp- tion Max.	Hydre- stetic Pressure low range	Water Permea- bility Max.	Point Value Mex.
COLOCARSD				1	1 1			(50	50	(51	00)	(54 50)	(53	350)	(5110)	(5500)	(5514)	(5516)	l1
Single layer 4.0 - Sin, layer 264 birdseye 275 60 &8 &0 60 20% total 80% min. 45.00 Type II - Gause double layer 3.35 - Dou. layer 395 74 81.0 ply seys, or interlocking. (7). Cloth, Drill, Cotton CCC-C-426c Type I - 30 in. 72x60, 2.50 yd. Class 1 - Greige Class 2 - Desised white or dyed and preshrunk 6.5 - " (1) 1 1 74 56 105 70 2% 2% 80% 35.00* Type II - 30 in. 72x68, 2.70 yd. Class 1 - Greige Class 2 - Desised white or dyed and preshrunk 7.5 - " (1) 1 1 74 56 105 70 2% 2% 80% 35.00* Type II - 30 in. 72x48, 2.70 yd. Class 3 - Bleenched child or dyed and preshrunk 7.5 - " (1) 1 1 74 46 120 72 2% 80% 45.00 Class 3 - Bleenched 7.5 - " (1) 1 1 74 46 120 72 2% 80% 45.00 Class 3 - Bleenched 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleenched white or dyed and greehrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleenched white or dyed and greehrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleenched white or dyed and greehrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleenched white or dyed and greehrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleenched white or dyed and greehrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleenched white or dyed and greehrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00	Geuse; Cotton	Min	Mex			W	F	₩	F	W	F		¥	7					
Choth, Drill, Cotton CCC-C-426c Class 1 - Greige Class 2 - Desised and preshrunk Class 2 - Desized and preshrunk Class 2 - Desized and preshrunk Class 3 - Bleached white or dyed and preshrunk Class 3 - Bleached white		4.0	-		26 }- 27			60	48	40	60		20\$	total		80\$ min.			45.00
Type I - 30 in. T2x60, 2.50 yd. Class 1 - Greige 7.7 - 3 harness (1) 1 1 72 60 130 90 80% 45.00 Class 2 - Desised and preshrunk 6.5 - " (1) 1 1 74 56 105 70 2% 2% 80% 35.00* Type II - 30 in. T2x48, 2.50 yd. Class 1 - Greige 7.7 - " (1) 1 1 72 48 130 85 80% 45.00 Class 3 - Bleached white or dyed and preshrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleached white or dyed and preshrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleached white or dyed and preshrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleached white or dyed and preshrunk 6.0 - " (1) 1 1 74 44 105 62 2% 2% 80% 35.00*		3.35	-	rlain, Bird- seye, or interlocking	402			74		45	25		20%	total		80≸ mir.			45.00
T2x60, 2.50 yd. Class 1 - Greige 7.7 - 3 harness (1) 1 1 72 60 130 90 80\$ 45.00 Class 2 - Desised 2 left 7.5 - 1 Twill (1) 1 1 74 58 120 85 2\$ 2\$ 80\$ 45.00 Class 3 - Bleached white or dyed and preshrunk 6.5 - " (1) 1 1 74 56 105 70 2\$ 2\$ 80\$ 35.00* Type II - 30 in. 72x48, 2.70 yd. Class 1 - Greige 7.7 - " (1) 1 1 72 48 130 85 80\$ 45.00 Class 2 - Desized and preshrunk 7.5 - " (1) 1 1 74 46 120 72 2\$ 2\$ 80\$ 45.00 Class 3 - Bleached white or dyed and preshrunk 6.0 - " (1) 1 1 74 44 105 62 85 80\$ 80\$ 35.00*																			
and preshrunk 7.5 - I Twill (1) 1. 1 74 58 120 85 25 25 805 45.00 Class 3 - Bleached white or dysed and preshrunk 6.5 - " (1) 1 1 74 56 105 70 25 25 805 35.00* Type II - 30 in. 72x48, 2.70 yd. Class 1 - Greige 7.7 - " (1) 1 1 72 48 130 85 805 45.00 Class 2 - Desized and preshrunk 7.5 - " (1) 1 1 74 46 120 72 25 25 805 45.00 Class 3 - Bleached white or dysed and preshrunk 6.0 - " (1) 1 1 74 44 105 62 25 25 805 35.00*	72x60, 2.50 yd.	7.7	-	3 harness	(1)	1	1	72	60	130	90				80%				45.00
Preshrunk 6.5 - " (1) 1 1 74 56 105 70 2 2 2 80	and preshrunk Class 3 - Bleached	7.5	-		(1)	J .	1	74	58	120	85								45.00
72x48, 2.50 yd. Class 1 Greige 7.7 - " (1) 1 1 72 48 130 85 80\$ 45.00 Class 2 - Desized and preshrunk 7.5 - " (1) 1 1 74 46 120 72 2\$ 2\$ 80\$ 45.00 Class 3 - Bleached white or dyed and preshrunk 6.0 - " (1) 1 1 74 44 105 62 2\$ 2\$ 80\$		6.5	-		(1)	1	1	74	56	105	70		2\$	25	80%				35.00*
Class 2 - Desized and preshrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleached white or dyed and preshrunk 6.0 - " (1) 1 1 74 44 105 62 2% 2% 80% 35.00*	72x48, 2.50 yd.				<i>(</i>)	_					0-	•			0-4				1
and preshrunk 7.5 - " (1) 1 1 74 46 120 72 2% 2% 80% 45.00 Class 3 - Bleached white or dyed and preshrunk 6.0 - " (1) 1 1 74 44 105 62 2% 2% 80% 35.00*		7.7	-	•	(1)	1	1	72	48	130	85		Pres	hrunk					45.00
preshrunk 6.0 - " (1) 1 1 74 44 105 62 25 25 805 35.00*	and preshrunk Class 3 - Bleached	7.5	•	**	(1)	1	1	74	46	120	72		2%	25	80 %				45.00
(Continued) #42.00 for any bleached		6.0	-	•	(1)	1	1	74	44	105	62								35.00*
	(Continued)															#42.00 fc	or any ble	eached	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness teoring strength, yorn size, etc.)	NOTES (Not Specification Requirements)
Type II	(2) Cleared and blesched.	Color - white.		Intended Use - In the fabri- cation of infant diapers.
CCC-C-k26c Type I Class 1 Class 2 Class 3 Type II Class 1 Class 2 Class 3	(2)	Color - Classes 1 & 2 - natural color. Class 3 - (1) - standard sample available (4-6). Colorfastness - Class 3 - standard sample available (5660-5610-5622-5651-5680)		Intended Use - In clothing and equipage items.

(Continued)

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NOMERCLATURE	Weight Oz./Sq.Yd.	Weave	Width	You			Breaking Strangth Lb. Min.	Perme	Shrink- uge Max.			static	Water Permea- bility Max.	Point Volue Max,
						(5050)	(5100)	(5450	(5550)	(5110)	(5500)		(5516)	
Cloth, Drill, Cotton CCC-C-426c (Cont'd)	Min Max			w	F	WF	WF		WF					
Type III - 30 in. 72x88, 2.85 yd. Class 1 - Greige Class 2 - Desized and preshrunk Class 3 - Blosched	6.7 - 6.5 -	3 harness 2 left 1 twi:	(1) (2)			72 48 74 46	110 65 100 60		Preshrur 2% 2%	80# ak 80#				45.00 45.00
white or dyed and preshrunk	6.0 -	Ħ	(1)	1	1	74 44	90 55		2\$ 2\$	80%				35.00*
Cloth, Duck, Cotton; Fire, Water, Weather, and Mildev Resistant CCC-C-428d														
Type I - Cloth fin. in Olive Drab #7. Class 1 - Reg. fin. Class 2 - Dry fin. Type II - Cloth fin. in deck grey color	for basic that non- & MIL-C-2 3.4.1.1. Weight of	cloth requiribrous mate fibrous mate 384 shall be finished cight of the	irement erial f e as sp loth sh	or CC ecifi	C-C- ed i	i.443 in	CCC-C- cloth design	ations	moment in/1b, max.		OF (bend momen in/15	ling it	50 ml. 50 ml.	
Class 1 - Neg. fir. Class 2 - Tey fin.	an allows a grey we	ince for he right of 12 gray weigh	atment oz. or	of 50 over	% fo	or	2 4 6 8 10 12 Army I 9.25 9.85		0.16 0.12 0.06 0.05 0.03 0.02 0.013 0.013	0.400 0.300 0.180 0.125 0.075 0.050 0.032 0.032	0.40 0.30 0.18 0.12 0.07 0.05	200 25 25 30 32 32	50 ml.	

*42.00 for any bleached.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness	NOTES
_			tearing strength, yarn size, etc.)	(Not Specification Requirements)
CCC-C-426c (Cont'	۵)			

Type III Class 1 Class 2

ccc-c-428a Type I Class 1 Class 2 Type II Class 1 Class 2

Compound to provide fire, water, weather, and mildew resistance shall be well ground and blended. Compounds containing sulfur may be used when approved (9). Water resistance: water resistance requirements or ain only to those cloths of CCC-C-443 having weights of 14.90 and 17.55 oz/sq yd and to ail ducks of CCC-C-419 and MIL-C-2364. Flame resistance - time of flaming shall not exceed 2 sec. (5903T). Average length of char shall not exceed 4.5 in. for cloth with an untreated weight of under 16 oz.; 3.5 in. for cloth of 10-20 oz.; and 2.0 in., for cloth of over 20 oz. Mildew resistance - Type I - an approved fungicide shall be used.

Color (1) - standard sample available (4). Color shall be obtained by materials not appreciably affected by materi Compound to provide fire, water,

Color (1) - standard sample available (4). Color shall be obtained

(10)

Intended Use - Class 1 - In the manufacture of canvas covers, tents, tarpaulins, and other duck items providing protection under conditions of prolonged cutdoor use. Class 2 - As upholstery material in motorized vehicles and uses where a higher degree of resist-ance to crocking is required.

NOMENCLATURE		ight Sq. Yd.	Weave	Width		Yerr Per k Min	ch	Breaking Strength Lb. Min.	Air Permec- bility	Shrink- age Max.		Dynamic Absorp- tion Max.			Point Value Mex.
	ł	_			L _	(505	0	(5100)	(5450)	(5550)	(5110)	(5500)	(5514)	(5516)	
Cloth, Osnaburg, Cotto	n Min	Max			WF	w	F	WF		WF					
Class 2 Class 3 Class 5	6.8 5.4 3.9	-	Plain "	(1) (1) (1)	1 1 1 1 1 1	38 32 28	24 26 24	60 60 50 50 40 40							60.00 60.00 60.00
Cloth, Sheeting, Cotto CCC-C-430c, Amd. 1	<u>n</u>														
Style A - #140 Type I - Unbleached Class 1 - Unshrunk Class 2 - Shrunk Type II - Bleached	4.7 4.8	:	Plain	(1) (1)	carded	68 74	72 69	70 70 70 70		2\$ 2\$					45.00 45.00
or dyed Class 1 - Unshrunk Class 2 - Shrunk	4.5 4.6	-	**	(1) (1)	**	74 74	66 69	70 - 70 70 70		25 25					dyed 30.00 35.00 white
Style B - #128 Type I - Unbleached Class 1 - Unshrunk Class 2 - Shrunk Type II - Bleached	4.1 4.2	•	 #	(1) (1)	#1 #1	64 70	64 63	55 55 55 55		2\$ 2\$					45.00 45.00
or dyed Class 1 - Unshrunk Class 2 - Shrunk	4.0 4.1	Ξ	"	(1) (1)	11 11	68 70	60 63	55 55 55 55		2\$ 2\$					dyed 30.00 35.00 white
Style C - #180(Perca Type II ~ Bleached Class 1 - Unshrunk	le) 3•5	_	10	(1)	combed	92	88	69 60							35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness teoring strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-429b Class 2 Class 3 Class 5	(2)	Color - natural.		Intended Use - As packaging, packing, and target cloth.
CCC-C-430c Style A Type I Class 1 Class 2 Style B Type I Class 1 Class 2 Style C Type II Class 1	(2) Type I - Unbleached. Type II - Bleached or dyed.	Color (1) - standard sample available (4-6). Colorfastness - standard sample available for dyed cloth (5660-5610-5600-5651).		Intended Use - In clothing, bedding material, and squipage items.

NOMENCLATURE		gh! lq.Yd.	Weave	Width inch				er Inch Stren		agth		Shrink- age Max.	Effic-	Dynamic Absorp- tion		Water Perinea- bility	Point Value Max.
											· · · · · · · · · · · · · · · · · · ·		Hency		low range Min.		WEA.
							(50	50)	(51	200	(3150)	(5550)	(5110)	(5500)	(5514)	(5516)	
Cloth, Cotton, Sherting (Unbleached, Bleached, And Syed) CCC-C-432b	, Min	Mox			W	F	W	F	W	F		WF					
Type I Class 1 - Unbleached Class ^ - Bleached,	3.4	-	Plain	(1)	1	1	44	40	40	35							45.00
dyed Class 3 - Bleached,	3.2	•	**	(1)	1	1	46	38	37	32		7.5% 2.0%	80%				35.00
dyed preshrunk	3.5	٠		(1)	1	1	48	42	38	33		2.0% 2.0%	80%				35.00
Type II Class 1 - Unbleached Class 2 - Bleached.	3+3	-	**	(1)	1	1	56	48	44	29							45.00
dyed Class 3 - Bleached,	3.1	-	**	(1)	1	1	58	46	41	26		7.5% 2.0%	80%				35.00
dyed preshrunk	3.4	•	**	(1)	1	1	60	50	42	27		2.76 2.09	80%				35.00
Type III Class 1 - Unbleached Class 2 - Bleached.	3.8	•		(1)	1	1	48	48	48	35							45.00
dyed	3.6	•	**	(1)	1	1	50	46	44	32		7.5\$ 2.0\$	80%				35.00
Tyre IV Class 1 - Unbleached Class 2 - Bleached,	-	-	"•	(1)	1	1,	48	44	55	40							45.00
dyed Class 3 - Bleached,	4.1	-	**	(1)	1	1	50	42	52	-		7.5% 2.0%					35.00
dyed preshrunk	4.4	•	**	(1)	1	1	52	46	54	38		2.0% 2.04	80%				35.00
Type V Class 1 - Unbleached Class 2 - Eleached.	4.0	-	**	(1)	1	1	56	60	45	40							45.00
dyed Class 3 - Bleached,	3.8	-	••	(1)	1	1	58	58	41	37		7.5% 2.0%	80%				35.00
dyed preshrunk	4.1	•	**	(1)	1	1	60	62	43	38		2.0% 2.0%	80%	,	•		35.00
(Continued)																	

				· · · · · · · · · · · · · · · · · · ·
NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size. etc.)	NOTES

CCC=C=432b	(2)	
Type I	When Class 1 or Class 2 cloth is	
Class 1	specified for use as the base	
Class 2	cloth for coating, the cloth shall	
Class 3	be singed, scoured, and calendered.	
Type II	It shall contain not more than 0.00	3%
Class 1	copper or 0.0015% manganese (D-377,	
Class 2	ASTM manual).	
Class 3	Mildew resistance - Class 2 (1)	
Type :II	cloth shall be made to conform to	
Class 1	finished requirements of Class D of	
Class 2	CCC-D-950, except that the require-	
Type IV	ment for colorfastness, as specified	đ.
Class 1	shall not apply. Treatment shall be	e e
Class 2	in accordance with inhibitor (a) of	
Class 3	CCC-C-950. Water repellency and	
Type V	mildew resistance - Class 2 (1)	
Class 1	shall be made to conform to the	
Class 2	finished requirements of Class P	
Class 3	of CCC-D-950, except that the	
(Continued)	requirements for hydrostatic resis-	
	tance and colorfastness as speci-	
	fied shall not apply. Treatment	
	shall be in accordance with	
	inhibitor (a) of CCC-D-950.	

Color - Classes 2 % 3
(1) - standard sample
available (4-6).
Colorfastness - standard
sample available for
dyed cloth - (5660-56005610-5680-5651).

Intended Use - In the manufacture of clothing and equipage items.

NOMENCLATURE		ight Sq. Yd.	Weave	Width		orn Hy	Per			ngth	Air Permea- bility	Shrink- ege Max.	Seem Effic- iency	Dynamic Absorp- tion Max,		Water Permee- bility Mex.	Point Value Max.
]]			(50	50	(51	001	(5450)	(5550)	(5110)	(5500)	(5514)	(5516)	i
Cloth, Cotton, Sheeting (Unbleached, Bleached, And Dyed)	Min	Max	·		w	F	W		W			V 7		وند تندا			
CCC-C-432b (Cont'd)																	
Type VI Class 1 - Unblached Class 2 - Bleached,	4.6	-	Plain	(1)	1	1	64	68	55	50							45.00
dyed	4.4	•	**	(1)	1	1	66	66	50	47		7.5\$ 2.0\$	805				35.00
Class 3 - Bleached, dyed preshrunk	4.7	-		(1)	1	1	6 8	68	51	48		2.0% 2.0%	80≸				35.00
Type VII Class 1 - Unbleached	5.0	-		(1)	1	1	46	48	60	50							45.00
Class 2 - Bleached, dyed	4.8	-	**	(1)	1	1	50	46	56	4?		7.5% 2.0%	80%				35.00
Class 3 - Rleached, dyed preshrunk	5.1	-		(1)	1	1	52	84	57	48		2.0% 2.0%	80%				35.00
Type VIII Class 1 - Unbleached Class 2 - Bleached,	5.6	-	"	(1.)	1	1	48	48	65	55							45.00
dyed	5.4	-	••	(1)	1	1	50	46	61	52		7.5% 2.0%	80%				35.00
Cless 3 - Bleached, dyed preshrunk	5•7	•	*	(1)	1	1	52	48	62	53		2.0% 2.0%	80≸				35.00
Cloth, Cotton, Sheeting (Laundry Cover Cloth)	i			(3)			(3	8)									
Class 1 - 72 in.wide	6.9	7.3	Plain	72	1	1	56	, 58	85	100							35.00
Class 2 - 90 in.wide	6.9	7.3	•	90	1	1	56	5 8	85	100							35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-432b (Cont'd Type VI Class 1 Class 2 Class 3	.)			Intended Use - The cloth of Types VI, VII and VIII in Class 1 or 2 may be used as base material for coated fabrics.

Class 3
Type VII
Class 1
Class 2
Class 3
Type VIII
Class 1
Class 2
Class 3

CCC-C-435b (2) Class 1 Class 2

Color - Unbleached.

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NOMENCLATURE	We Oz./1	ight iq. Yd.	Weeve	Width Inch		ern Hy	Per			ngth Min.	Air Permed- bility (5450)	Max.	Effic- iency	Max.	static	Permea- blity Max.	Point Value Max.
Cloth, Ticking Tvill, Cotton CCC-C-436c	Min	Mox		II	W	F		F	W			WF	<u> </u>	1,000		(122,22)	
Type I - 9 or/sqyd Class 1 - Untreated	8.5	9.5	3 tvill	(1-3)	1	1	78	62	135	90							35.00
Type II - 7 os/sour Class 1 - Untracked Class 2 - Treated		7.5 +130#	2 twill	(1-3) (1-3)	1	1	70 70	39.6	110 93.5 min	51		Preshrum 2% 2%	ık				35.00 35.00
Cloth, Cotton, Prosd- cloth, Mercerized CCC-2-376 Type I - 1&0x76 Type III - 132x64 Type IV - 116x56 Type V - 102x56 Type V - 82x56 Class 1 - Bleached Class 2 - Unbleached	3.5 3.2 3.2 3.2 3.2 2.8	:	Plain " " "	(1) (1) (1) (1) (1) (1)	1 1 1 1 1	1 1 1 1 1	148 140 132 116 102 82	74 56 64 56 56 56	74 65 75 60 55 30	28 25 30 25 25 25		Preshrunk 1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	85% 85% 85% 85% 85%				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness teoring strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-436c Type I Class 1 Type II Class 1 Class 2	(2) Type II, Class 2 shall be given an approved flame-resistant treatment. Average flaming time 2.0 sec. max. (5903T). Average length of char 5.0 in. both initially and after 15 launderings (5903T).	Color - Alternating natural white & blue "dyed" warp stripes, which may be either solid or broken by white warp ends. The white stripe shall be about \(\frac{1}{4}\) in. wide \(\frac{1}{4}\) the thue stripe shall be about \(\frac{3}{4}\) fin. wide - standard sample available (\(\frac{1}{4}\)). Colorfastness - standard sample available (5630).		Intended Use - In the manufacture of mattress and pillow covers. Type I - For pillows containing feathers or down, and mattresses containing hair. Type II - For all other mattresses.
CCC-C-437b Type I Type II Type III Type IV Type V Type VI	(2) Singed, desized, and mercerized, with a clear, lustrous finish. Class 1 shall be bleached.	Color (1) - standard cample available (4-6). Colorfastness - standard sample available - (5660-5600-5650-5651-5610).		Intended Use - In the manufacture of men's and women's shirts.

NOMENCLATURE	Wei Oz./8		Weave	Width Inch	Yarn Ply	Per		Brea Stree Lb.	ngth	Air Permea- bility	Shrink- age Max.	Effic-	Dynamic Absorp- tion Max,		Water Permed- bility Max.	Point Value Max.
						(50	50)	(51	00	(5450)	(5550)	(5110)	(5500)		(5516)	
Cloth, Cheesecloth, Cotton, Mesched And Umblesched CCC-C-440c	Min	Max			WF	W	F	W	F	<i>(</i> -)	W F					
Type I = 44x36 Class 1 - Unbleached Class 2 - Bleached		1.88 1.59	Plain "	(12) 38 1 38 1		(a)		22 20	10 9	41- 41-		Total 76-84				70.00 60.00
Type II - 26x24 Class 1 - Unbleached Class 2 - Bleached		1.16 1.03	H 11	36 36				10 8	5		30 22-26 30 22-26					70.00 60.00
Cloth, Corduroy, Cotton																
Type I - Unbleached, unshrunk Class 1 Class 2	8.5 10.5		Single or Double tie	(1) (1)	Single or ply		126 142	65 76	60 74				wales/in. min. 14 12	-		45.00 45.00
Type II - Dyed and shrunk Class 1 Class 2	7.2 9.5	:	ri ri	(1) (1)	11 11		126 142	60 70		;	Preshrunk 5% 3% 5% 3%		15 12]			35.00 35.00
Cloths, Polishing	3•5	•	••		1 1	45	42	25	n							

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-hloc Type I Class 1 Class 2 Type II Class 1 Class 2	Class 1 - Unbleached. Class 2 - Bleached.			Intended Use - In items of clothing and for polishing and cleaning operations.
CCC-C-hhla Type I Class 1 Class 2 Type II Class 1 Class 2	(2) Type I - Unbleached and unshrunk. Type II - preshrunk.	Color - Type I - natural. Type - (1) - standard sample available (4-6). Colorfastness - standard sample available for dyed and finished cloth - (5660-5610-5600-5680-5651).	the minimum number of warp yearns shall be twice that here creatified.	Intended Use - In the manufacture of clothing items.
DDD-C-441b	Soft finish; lightly napped on both sides.	Any color or colors.		

NOMENCLATURE	Welg Oz./Sc		Weave	Width Inch		ern Ty	Yer Per M	Inch	Break Stren Lb. A	gth	Air Permec- bility	Shrink age Max.	- Seam Effic- iency	Dynamic Absorp- tion Max.		Water Permea- bility M:	Point Value Mex.
i i							(50	50)	(510	(00	(5450)	(5550	0 (5110	(5500)	(5514)	(55 (6)	
Cloth, Duck, Cotton Bleached CCC-C-4426	Min	Max			w	F	W	F	w	F		W					
Туре І	5.0	-	Plain lup/ldown	(1)	2	2	77	44	130	75		Freshr	mk ≱				35.00
Type II	7.0	•	(7)	(1)	1	2	88	28	110	60		25 2	*				35.00
Type III	8.2	•	Plain lup/ldown	(1)	2	2	5 8	48	135	100		2%	*				35.00
Type IV	8.5	-	(7)	(1)	1	4	112	32	120	120		2%	*				35.00
Type V	7.0	-	Plain lup/ldown	(1)	2	2	52	34	80	48		25	≱				35.00
Cloth, Cotton, Duck; (Single and Piled Filling Yarns, Flat) CCC-C-443b, Amd. 1							(a)										
Type I - Single Fill. (Continued)	7.26 8.47 10.00 10.89 12.10 13.32 14.53 14.90 17.55 18.15		Oxford 2 ends weaving as ons- Plain		1 1 1 1 1	1 1 1 1 1 1 1 1	74 74 74 72 72 72 76 86 72	27 27 26 26 25 28 27 25	90 100 130 135 160 165 170 180 270	110 120 160 245	14 3						40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-1442b Type I Type II Type III Type III Type IV Type V	(2) Desized, singed, bleached, and mercerized.	Color - chemically white standard sample available (4). May be supplemented with fluorescent optical brightener. Colorfastness - standard sample available - (5660).		Intended Use - Types I, II and III - for use in white uniforms. Type IV - In dress uniform trousers of U.S. Military Academy cadets. Type V - as the base cloth for Smock, Man's, Dental, Operating; and Smock, Man's, Medical Assistant.
CCC-C-443b Type I (Continued)	(2) Unbleached.		(a) Two yarns woven as one.	Intended Use - In the fabrication of tentage and related items.

NOMENCLATURE	Wolq Oz./S		Weave	Width Inch		ern Hy	You Per M		Break Strer Lb. 1	gth	Air Permec- bility	Shrink- age Max.		Dynamic Absorp- tion Max.	static Pressure low range		Point Value Max,
							(50	50)	(510	XX	(5450)	(5550)	(5110)	(5500)	Min. (5514)	(5516)	
Cloth, Cotton, Duck; (Single and Filed Filling Farms, Flat) CCC-C-k3b, Amd. 1 (Cont'd)	Min	Maz			W	F	W	F	w	F		WF					
Type II - Double filling (plied)	7.26 8.47 9.68 10.89 12.10 13.32 14.53 18.15	•	Onford, 2 ends weaving as one - Plain	1111111111	1 1 1 1 1	22233445	(a) 8688888888888888888888888888888888888	30 30 30 30 30 29 29 25	100 115 125 140 150 165 180	85 100 116 115 135 160	:						40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00
Cloth, Cotton, Jean (Bleached) CCC-C-444b	4•7	•	2 twill	(1)			98	60	85	48		Preshru 1% 19					35•∞
CCC-C-446d, Amd. 2																	
Class 1 - Unbleached Class 2 - Bleached	2.7	-	Plain	(1)	1	1	,64	58	37	2 6		9% 9	6				45.00
or dyed Class 3 - Bleached	2.4	-	*	(1)	1	1.	66	52	34	20		6% 64	6				30.00
or dyed preshrunk (Continued)	2.5	•	"	(1)	1	1	68	. 5	36	22		1% 1	6				white- 35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness	NOTES
			tearing strength, yarn size, etc.)	(Not Specification Requirements)

CCC-C-443b (Cont'd) Type II

CCC-C-444b

(2) Singed, desized, and bleached.

Intended Use - In the manufacture of clothing and equipage items.

CCC-C-446d Type I Class 1 Class 2 Class 3 (Continued)

(2) Classes 2 and 3 cloth shall be singed.

Color (1) - standard sample available (4-6). Colorfastness - standard sample available for dyed cloth - (5610-5600-5660-5680-5651).

Intended Use - In clothing, flags and equipage items.

NOMENCLATURE		ight Sq. Yd.	Weave	Width		arn Ply	Per M	inch	Lb. I	gth lin.	Permeg- bility	Shri age Ma	3X.	Effic- iency	Mex.	static Pressure low range Min.		Point Value Max.
ļi		,	<u> </u>	لــــــــــــــــــــــــــــــــــــــ				50)			(5450)	_	_	(5110)	(5500)	(5514)	(56 (6)	
Cloth, Muslin, Cotton CCC-C-446d, Amd. 2 (Cont'd)	Min	Max			w	F	W	F	W	F		W	P					
Type II																		
Class 1 - Unbleached Class 2 - Bleached	5.1	-	Plain	(1)	1	1	68	70	42	34		2%	9%					45.00 dyed-
or dyed Class 3 - Bleached	2.7	-	50	(1)	1	1	70	64	38	28		6 %	6%					30.00
or dyed presnrunk	2.8	•	17	(1)	1	1	72	68	40	30		1%	15					white-
Type III																		
Class 1 - Unbleached Class 2 - Eleached	3.4	-	"	(1)	1	1	78	76	46	39		9%	9%					45.00
for dyed	2.9	-	**	(1)	1	1	80	70	45	32		6%	6\$					dyed- 30.00
Class 3 - Bleached for dyed preshrunk	3.0		"	(1)	1	1	83	74	44	34		1%	1%					white- 35.00
Type IV				-								•	-•					5,
Class 1 - Unbleached	2.4	-	"	(1)	1	1	38	36	3 7	20		9%	9%					45.00
Type V																		
Class 1 - Unbleached	3.9	-	"	(1)	1	1	56	60	44	50		9%	9%					45.00
Type VI Class 2 - Bleached or dyed Type VII	2.4	-	v	(1)	1	1	64	56	35	25		6 %	6 %					dyed- 30.00 white- 35.00
Class 2 ~ Eleached or dyed	3.1	-	"	(1)	1	1	95	72	45	30		6 %	64					dyed- 30.00 white- 35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness	NOTES
			tearing strength, yarn size, etc.)	(Not Specification Requirements)

CCC-C-446d (Cont'd)
Type II
Class 1
Class 2
Class 3
Type III
Class 1
Class 2
Class 3
Type IV
Class 1
Type V
Class 1
Type VI
Class 2
Type VI
Class 2
Type VI
Class 2
Type VII
Class 2

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NOMENCLATURE	Weight Oz./Sq.Yd.	Weave	Width Inch		Per Inch	Breaking Strength Lb. Min. (5100)	Permen- bility	age Max.	Effic- iency	Absorp-	Pressure low range Min.	Permea- bility	Point Value Max.
Cloth, Cotton, Percale COC-C-147b	Min - Max 3.0 -	Plain	(1)	W F	₩ F 85 72	W F 45 30		W P 1% 1% Preshrunk					30.00 dyed 35.00

Cloth, Cotton, Seersucker CCC-C-448b

Type I - Marrow Stripe Class 1 - 82x86 tex. 4	.c -	Plain	(1)	1	1	82	86	24	45	Preshr		Slack Bear Take-up min.
Type II - Medium stripe Class 1 - 112x80 tex. 4 Class 2 - 80x80 tex. 4		slack W weaving 2 ends as 1	(1) (1)	1	1	90 173	80 80	30 30	20 40	4 5	24 24	4 0≴ 30≸
Type III - Stripe pattern effect Class 1 - 280x72 tex. 4	.G -	Plain	(1)	1		230 per repea: (2-5/6		25	30	L g	2 %	Lu≰

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	CTHER REQUIREMENTS (Such as thickness learing strength, yarn size, etc.)	NOTES [(Not Specification Requirements)
ccc-c-'476	(2) Singed, bleached, or dyed. May be calendered.	Color (1) - standard sample avainable (4-6), Colorfastness - standard sample available - (5660- 5610-5622-5651).		Intended Use - In the manufacture of clothing.
CCC-C-446b Type I Class 1 Type II Class 1 Class 2 Type III Class 1	(2) Singed, desized, and bleached. When bleached warp and filling yarns are used for the undyed yarns, yarn or piece bleaching is optional.	Color (1) - standard cample available (4-6). Colorfastness - standard sample available - (5660-5610-5600-5680 or 5682-561). See specification for special instructions on stripe or pattern effects	yarn for Type I, Class 1 sloth and tight beam warp yarn for Type II, Class 2 cloth shall be two-ply.	Intended Use - In clothing items.

NOMENCLATURE	Wel Oz./S	ight Iq. Yd.	Weeve	Wi-4th Inch		orn Ply	Por	inch Kin.	LS.	ngth Min.	Ale Pormeo- bülty	Max.	Effic- iency	Oynamic Nesorp- tion Max.	etatic Pressure low range Min,	Water Permec- bility Mcx.	Point Value Mex.
						, ,		50)			(5450)		25110)	(5500)	(5514)	(5516)	
Cloth, and Cloths, Warfle, Cotton CCC-C-00450 (GSA-FSS)		Mox			w	F	w	F	W	F		V F					
Size 1 - 18x36 in.	6.5	-	Honeycomb		2	2	37	24 24 24	55 55 55 55	45							
Size 2 - 36x36 in. Roll - 28 in. wide	6.5	-	(dotby)		2	2	31	24	55	45							
Roll = 36 in. wide	6.5	•	(gecoy)		5 5 5	5 5 5	31	24	22 55	45							
Cloths, Polishing [For Riestrical Contact Surfaces) DID-C-450a	7.0	-			1	1 5	50 <u>+</u> 2	38 ± 2	25								
Cloth, Cotton, Fajama-Check CCC-C-00455 (GSA-FSS) Type I = 88x88	3•5	-	Pancy Bas- ket Veave	36 ±±	1	1	94	80	52	35		Preshruni 1\$ 1\$					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thick yess	NOTES			
			tearing strength, yarn size, etc.)	(Not Specification Requirements)			
CXC-C-00450 Size 1 Size 2 Roll - 28 Roll - 36	Unshrunk and unbleached or bleached. Cloth shall be absorbent to water (4.4.1).						
DOD-C-450s.	Soft finish; lightly napped on both sizes. Cloth shall be finished by dipping in a silica-base compound until thoroughly impregnated.	Color - white (bleached)	(5)				
ccc-c-00455 Type I	(2) Desized, bleached, tinted a bluish white, and calendered to produce a soft, smooth nainsook finish.			Intended Use - In the fabrication of undergarments and prismas.			

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NOMENCLATURE	Weig Oz./S		Weave	Width Inch		arn Hy	Per			gth	Air Permec- bility	Shrink- age Mux.	Effic-			Water Permeg- bility Max.	Point Volue Max.
							(50	50)	(510	XX	(5450)	(5550)	(5110)	(5500)	(5514)	(5516)	
Cloth, Flannel, Cotton	Min	Max			w	F	A	F	W	F		WF					
Type I - Flain weave (soft filled sheet- ing) unbleached, napped one side Class 1	4.7	•	Plain	(1)	1	1	42	40	26		single napped	Freshrunk 2¶ 2¶	:				32.00
Type II - Plain weave (soft filled sheet- ing) unbleached napped both sides Class 1	4.6		,	(1)	1	1	112	40	26		iouble						32.00
Type III - Plain weaw (outing flames) bleeched or dyed, napped both sides Class 1 Class 2 Class 3	3.5 4.0 4.6	:	# # #	(1) (1) (1)	1 1 1	1 1 1	42 42 50	40 40 40	23	17 19 23	3	Preshrunk 2 % 2 %	(1)			B	leached 28.00 dyed- 25.00
Type IV - Tvill weave (canton flannel) umbleached, napped on the filling side Class 1 Class 2 Class 3 Class 4 Class 5 Class 6			3°or 4 har- ness twill "	(1) (1) (1) (1) (1) (1)	1 1 1 1 1	1 1 1 1 1	୨୫୫୫୫୫ ୧୯୯	38 38 38 34 34	45 60 60 65 100 100	20 25 30 40 50							32.00 32.00 32.00 32.00 32.00 32.00 32.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
CCC-C-458a Type I Class 1 Type II Class 1 Type III Class 1 Class 2 Class 3 Type IV Class 1 Class 2 Class 5 Class 5 Class 5 Class 5 Class 6	Type I - napped on one side. Type II - napped on both sides. Type III - napped on toth sides. Type IV - napped on the filling side. Type IV, Class 3 shall be singed on the unnapped side when specified. Standard samples available for finishes.	Color - Types I, II and IV - umbleached. Type III (1) - standard sample available (4-6). Colorfastness - standard sample available for dyed cloth - (5610-5651-5680).		Intended Use - In the manufacture of pajamas, glover, the tack of gloves, glove lining, padding for front interlining in coats and interlining in caps.

NOMENCLATURE	Wei Oz./\$	ght iq. Yd.	Weave	Width Inch	Yorn Ply	Per Inch	Breaking Strength Lb. Min.	Permee-	age Max.	Effic- lency	Absorp- tion Max,	Hydro- atotic Pressure low range Min. (3514)	Perines- bility Max.	Point Value Max.
Cloth, Cotton, Flamel (Rewy, For Table Felts CCC-C-460		Max	Filling reversible weave (7)	(1)	WF	WF	W F 60 30		W P					

Cloth, Uniform Tvill

CCC-C-461a		
Type I	7.9 8.6 3 right ('.) 2 2 116 56 180 120 Preshrunk 1 tvill	dyed- (25.00
Type II	7.9 8.6 " (1) 2 1 116 56 180 11C 1\$ 1\$ 80\$	(35.00 white
Type III	7.7 8.4 3 left (i) 1 1 112 54 160 110 15 15 805	••
Type IV	7.2 7.9 (1) 1 1 100 54 160 110 1\$ 1\$ 80\$	"
Туре V	7.2 7.9 " (1) 1 1 100 54 150 100 1\$ 1\$ 80\$	**
Type VI	8.2 8.6 " (1) 1 1 112 56 170 80 1\$ 1\$ 80\$	"

Cloth, Squeeze, Dental DDD-C-00475(DSA-DM)

(fin. cloth, jaws at initial distance of 1 inch) 74 74 36 36

Style 1 - Round 2.75 -

Style 2 - Square 2.75 - 102 52 55 32

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness	NOTES
			tearing strength, yarn size, etc.)	(Not Specification Requirements)

ccc-c-460

Unbleached. Full map on both sides.

CCC-C-461a

Type I Type II Type III Type IV Type V Type VI

Singed, desized, and mercerized. White cloth shall be singed, desized, mercerized and bleached.

Color (1) - standard sample available (4-6). When white is specified, cloth shall be bleached and tinted to match std.

sample.
Colorfastness - standard sample available for dyed cloth (5660-5610-5600-5680-5651).

DDD-C-00475 Style 1 Style 2

27.

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Intended Use - In clothing and equipage items.

NOMENCLATURE		ight Bq. Yd.	Weave	Width		orn Hy	Per	inch in.	Lb.	ngth Min.	Permeo- bility	oge M	OX.	Effic- iency	Dynamic Absorp- tion Max.	static Pressure low range Min.	Permea- bility Max.	Point Value Max.
	201-	T 20 a m				1-		50)		201	(5450)		_	(5110)	(5500)	(5514)	(5516)	
Cloth, Wind Resistant Oxford, Quarpel Treated		Mex			w	F	W	ľ	W	F		W	F					
MIL-C-484E	6.5		Oxoford	(1)	1	1	130	54	135	50		Presi	hrunk 2 %		Initial (13) 25	Initial (13) 35		28.00
Type V	9.0	_	(2 ends weaving	(1)	2	1	128	48	200	95		25	25	80%	25			28.00
	-		as 1)			•-						•			•	35		
Type VI	5.5	-		(1)	2	1	196	86	180	80		2%	25	80≸	25	35		28.00
Towels, Cotton, For Classware DDD- T-501c Class A - Plain weave	-	•	Plain				54	38	50	50								
Class B - Plain weave with 5-harness 4/1 woven stripe	5.5	•	Plain with warp stri produced with a 5- harness, 4/1 weave	ipe			36	29	50	40								
Cloth, Poplin, Cotton MIL-C-507E	4.5	5.0	Plain	(1)	2	1	106	48	110	50	Pr	eshr 2%	ank 2 %	85%				dyed- 28.00 32.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yorn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-484E Type I Type V Type VI	(2) The cloth shall be given an approved Quarpel type, water-repellent treatment. Initial spray rating shall be 90, 90, 80. (5526). Cloth shall be singed, scoured, and mercerized. pH: 6.5-8.5.	Color (1) - standard sample available (4-6). Colorfastness - standard sample available (5610-5600-5651-5680-5660).	Stiffness - Type VI - max. flex-stiffness shall to 0.00050 in/1b for the warp and 0.000°5 in/1b for the filling (5206).	Intended Use - In clothing where a high degree of wind resistance and water resistance is of prime importance.
DDD-T-50le Class A Class B		Color - towels shall be bleached white except for the stripes in Class A, which shall be either Turkey red or blue. Colorfastness - "good" (5600-5610).	(14)	Intended Use - Primarily for drying glassware.
MIL-C-50TE	(2) Singed, desize, and mercerized, with a clear lustrous finish.	Color (1) - standard sample available (4-6). When white is specified cloth shall be bleached and may be supplemented with fluorescent optical brightener. Colorfastness - standard sample available (5660-5610-5600-5651).		Intended Use - In the manufacture of clothing items.

NOMENCLATURE	Weight Oz./Sq. Yd.	Weave	Width Inch	Yarn Piy		Breaking Strength Lb. Min.	Permea-	Shrink- age Max.	Effic-	Dynamic Absorp- tion Max.	static Pressure low range	Water Permea- bility Max.	Point Value Max.
					(5050)	(5100)	(5450)	(5550)	(5110)	(5500)	Min. (5514)	(5516)	
Towel or Dishclotn [Crash, Cotton, and Cotton and Linen-Mixed] Cloth, Crash, Cotton DDD-T-511c (See also under Mixed Cloths	Min Max			WF	WF	WE		W P					
Type I - Towel or dishcloth Class 1 - Cotton warp & linen filling (umbleached)													
Class 2 - All cettors (bleached) Size 1 - 17x30 in. 2 - 17x36 in. 3 - 17x14½ in.	5.8 -	Plain			38 30 38 30 38 30	50 40 50 40 50 40							40.∞
Type II - Cloth, crass cotton (bleached)	h, 5.8 -	"			38 30	50 40							
woven design and	(1b/doz for 17x36 in.)	Huck(7)		(a) 1 or 2	52 26 (as s or 52 pairs	in							

HOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
DDD-T-511c Type I Class 1 Class 2 Size 1 Size 2 Size 3 Type II	(2) Cloth shall be shoured and bleached.	Color - cloth shall be bleached. When specified, towels shall have woven, colored stripes 3/16 to 5/16 in. wide, located 7/16 to 9/16 in. from each selvage edge. Colorfastness - Stripes: "good" (5610-5600).	Rate of absorbency: height of rise of colored water shall be a min. of 6 cm. in 5 min. in both W and F.	
DDD-T-53ld Type I Class 1 Pattern 1 Color a Pattern 2 Color a Color b (Continued)	(2)	Color - color of towels and toweling shall be bleached or dyed as specified. (6). Std. samples available (4). Colorfastness - for dyed towels and towel- ing and for colored stripe in bleached towels - standard sample available (5600-5610).	(5)(14).	

NOMENCLATURE	Weight Oz./5q.Yd.	Weave	Width	Yarn Ply	Yerns Per Inc Min.		ngth	Air Permeo- bility	Shrink- age Max.	Effic-	Absorp- tion	Hydro- static Pressure low range Min.	Permes- bility	Point Value Max.
					(5050	(510	001	(5450)	(5550)	(5 10)	(5500)	(5514)	(5516)	
Towel, Hand and Cloth, Cotton, Huck DOD-T-531d (Cont'd)	Min Max		(3)	W F	WF	w	F		WF					
Class 2 - Without woven design & stripe Colur a - White Color b - Green	2.55 - (1b/doz for 17x36 in.)	Huck(7)	17	1 or 2	(as	70 sin. 2 in s)	60							
Type II - Cloth, cotton, huck	3.35 - oz/lin yd	Huck(7)	(3) 17	1 or 2	(as	70 sin. 2 in	60							
Towels, Machinery Wiping (Laundered) DDD-T-539														
Sizes: 18x18 in. 18x30 in.	6.0±0.2				28 18 28 18									
Tovel, Machinery Wiping DDD-T-541c														
Size 1 - $16\frac{1}{2}$ x18 in. Size 2 - 18 x30 in.	5.5 - 5.5 -	Plain "		1 1 1 1	28 18 28 18	40 40								

	NOMENCLATURE	FINISH	SHADE AND COLGREASTNESS	OTHER REQUIREMENTS (Such as thickness	NOTES
Į				tearing strength, yarn size, etc.)	(Not Specification Requirements)
	DOD-T-5214 (Con+14	1			

DD-T-531d (Cont'd) Class 2 Color a Color b Type II

DDD-T-539 (2)
Sizes: 18x18 in.
18x3C in.
18x3C in.
grease, metal, plastic or other foreign objects, & shall have no objectionable odor.

towel shall be free from holes. Absorbency: ave. time of saturation shall be 10 sec. max. (4.4.2). Capillarity: ave. time of water to rise 1 in. shall be 40 sec. max.; to rise 2 in. shall be 90 sec. max. (4.4.3).

Towels shall be free of torn, frayed, or tattered edges, and not less than 97% of the area of each towel shall be free from towels received facilities.

DDD-T-541c

Size 1 Size 2

Towels may be bleached or un-tleached as specifies.

(5)

Intended Use - Frimarily for use in cleaning machinery and mechanical components.

NOMENCLATURE	Weig Oz./S		Weave	Width		ern Hy	Yor Per Mi	Inch		atte	Air Permec- bility	Shrink- age Max.		Dynamic Absorp- tion Max.	Permec-	Point Value Mex,
							(50	50)	(51		(5450)	(5550)	(5110)	(5500)	(5516)	
Towel, Bath, Cotton	Min	Max			W	F	W	F	W	F		WP				
Terry DDD-T-00551f(GL)					덛											i
Type I - Sin. loop Class 1 - 20x40 in.	(16/d 5•5		(7) Terry		r Ground r Pile		72	32	75	70						
Type II - Dou, loop Class 1 - 22x44 in.	8.5	-	**		1 1	1	84	42	45	40						
Class 2 - 16x27 in.	3.0	-	н		1 1 2	1	84	42	45	٤ɔ						
Class 3 - 16x27 in.	3.65	•	n		1 1 2	1	,84	42	45	40						
Class 4 - 20x40 in.	5.5	•	**		1 1 2	1	71	32	45	40						
Style A - Selvage edge both sides																
Style B - One sel. edge, one hemmed																
Cloth, Wind Resistant																

Cloth, Wind Resistant Sateen, Cotton MIL-C-557E													Initial	
Type I	9.0	-	5 harness sateen(7)	(1)	5	2	112	68	150 125	Preshrunk 1% 1%	80≰	(13) 2 5	(13) 35	25.00
Type II	7.0	•	" mudern(1)	(1)	2	1	120	88	130 105	1\$ 1\$	85%	25	35	25.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness teoring strength, yorn size, etc.)	NOTES (Not Specification Regularments)
DDD-T-00551f(GL) Type I Class 1 Type II Class 1 "lhas 2 Class 3 Class 4 Style A Style B	(2)	Color - towels shall be bleached white or dyed as specified. Standard sample available (4-6). Colorfastness - standard sample available (5600-5610).	When design (non- military) is required, it shall be as specified	
MII-C-557E Type I Type II	(2) Singed, desized, & mercerize, & dyed, & given a water-repellent treatment. Initial spray rating 90, 90, 80 (5526). Type I - finished with filling effect side as face. Type II - finished with warp effect side as face.	Color (1) - standard sample evailable (4-6). Type I - matched with filling effect side used as face. Type II - matched with varp effect side used as face. Colorfastness - standard sample available (5610-5600-5680-5651-5660).	Type I - filling effect side shall be stamped in ink, to identify the face of the cloth.	Intended Use - In clothing where a high degree of wind and water resistance is of prime importance.

NCMENCLATURE		ght iq. Yd.	Weave	Width	Yarn Piy	Yer Per Mi	inch n.	Brea Stree Lb. (rgth Vin.	Air Permed- bility (5450)	Ma	X.	Effic- iency	Absorp- tion	Pressure low range Min.	Point Value Max.
Toweling; Cotton,	Min '	Max			WF	W	F	W				P				
CCC-T-561	5.3 + any - 3%	-	Plain	16 ±1		54 + a - 2	ny	50	50							
Prints; Cotton CCC-P-651											Presh					
Type I	2.7	•	Plain	35212		72	64	52	32		1%	1%				
Type II	2.4	•	**	35 2+2		66	54	38	17		15	1%				
Cloth, Brattice, Cotton, Fire-Resistant NL-C-788D(SHIPS)	12	13		(1)±1½	2	2 -2 6 :	19-21	1 120	80							

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	(Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
ССС-Т-561	Cloth shall be fully blesched and properly neutralized.	Color - red or blue. Colorfastness - "fast" to washing.	Cloth shall have a check- ed pattern forme: by 2 colored warp ends & 2 colored filling picks woven in at intervals at ½ to 1 in.; or a line pattern with 2 colored lines running parallel to the warp about an inch apart formed by 2 colored warp ends woven in.	
CCC-P-651 Type I Type II	(2) Singed. May be lightly calendered or uncalendered.	Colors & patterns (1). Jolorfastness - (5660- 5610).		Intended Use - Type I - In women's and children's dresses. Type II - for comforter coverings

MIL-C-788D

Fire resistant - flame time, 3 sec. max. Average length of char - 3 in. Treatment must be compatible with adhesive Type I of MIL-A-3316 (5903T). Flexibility (3.2).

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Drying time and adhesive Intended Use - For repairing strength (3.5.1). and covering the surface of fibrous glass insulation board.

NOMENCLATURE		ight 3q. Yd.	Weave	Width	You		Yor Per I Mi	nch	Lt. Min.	Permea- bility	Max.	Effic- iency	Absorp- tion Max.	Pressure low range Min.	Permee- bility Max.	Point Value Max.
Swiss, Cotted; Cotton CCC-S-891	Min 1.4	Max	Woven dots (clipped) on plain background	36 - 1	wi		W 62		(5100) W F 24 12	(5450)	(5550) W P	(5 i 10)	(5500)	(5514)	(5516)	
Cloth, Cotton, Terry (For Filtering) HIL-C-1164B	9.0	•	Terry(7)	(11° 35-37	1	1	62	32								
Cloth, Cotton, Oxford																

MII-C-2107C													
Type I - Oxford	5.0	-	Oxford	(1)	1	1	128	42	95	65	Preshrunk 2% 2%		30.00
Type II - Oxford	45	-	**	(1)	1	1	128	60	95	45	2% 2%	80%	30.00
Type III - Poplin	5.5	-	Poplin	(1)	1	1	114	52	140	45	2% 2%	80%	30.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
ccc-s- 891		Color (1). Colorfastness - (5610).		
MIL-C-1164B	(2) Bleached or unbleached.		(5)	Intended Use - For filtering feed water systems on ships driven by reciprocating engines.
MIL-C-2107C Type I Type II Type III	(2) Singed, scoured, mercerized, and dyed, with a clear lustrous finish.	Color ~ light tlue, shade No. 14 - standard sample available (4 5). Colorfastness ~ standard sample available (5610-5600-5680).		Intended Use - In the fabrication of pajamas for hospital and orthopedic use.

NOMENCLATURE		ight Sq. Yd.	Weave	Width		orn Hy	You Per M		Bred Stre Lb.	ngth	Air Permea- bility	Shrii age Ma		Seam Effic- iency			Point Value Max.
							(50	50)	(51	001	(5450)	(555	50)	(5110)	(5500)	(5516)	
Cloth, Duck, Cotton; Plied and Single Yarns (Righ Sley) Nii-C-2304C	Min	MGX			W	F	W	F	W	F		W	F	•			•
Type I - Plied yarn Class 1 Class 2	10.75		Oxford weave (plain	(1) (1)	2	1	70 72		(3 195 245	135							40.00
Type II - Single yarn Class 1 Class 2 Class 3	8.50 9.75 11.25	5 -	veave, 2 ends veaving as 1)	(1) (1) (1)	1 1 1	1 1 1	110 86 100	44 50 30	150	130							40.00 40.00 40.00
Cloth, Nemak, Cotton NII-C-2758C	5•5	•	Sin. demask 5-leaf twil (14)		1	1	78	3) 7 6	74	74		6%	6 %				
Cloth, Cotton, Oxford MIL-C-4122A (USAF) Amd. 1																	
Type I - White	4.25	4.50	Plain, 1-up	36 ±2	(8) std.		88	42	40	70		Presh		i	,		
Type II - Shade Blue Rumber 501	4.25	4.50	1-down (2 warp ends		avail able		88	42	40	70		1%	1%				
Type III - Shade Blue Number 126		4.10	weaving				88	42	40	70		14	14				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yorn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-2384C Type I Class 1 Class 2 Type II Class 2 Class 3	(2)			Intended Use - In the fabrication of tentage and equipage items.
MIL=C=2758e	(2) Bleached and mercerized, with a clear lustrous finish.	Color - White, Navy Shade 3017 standard sample available.	(5)	Intended Use - In making table cloths.
MII-C-4122A Type I Type II Type III	(2) Singed, desized, boiled off, scoured, and mercerized, with a clear lustrous finish.	Color - Type I - white (bleached). Type II - Shade Blue, #501, vat dyed in the piece. Type III - Shade Blue #125. Warp of vat dyed blue yarms; fill of bleached white yarms. (4). Colorfastness - "Good" (5660-5610-5600-5621,	(5)	Intended Use - In the fabri- cation of USAF shirts and WAF sirtwaists.

34.

NOMENCLATURE	Weight Oz./Sq.Yd.	Weave	Width Inch	Yorn Ply		Breaking Strength Lb. Min.		Shrink- age Max.		Absorp- tion	static P	Weter Point Value Hity Max.
					(5050)	(5100)	(5450)	(5550)	(5110)	(5500)	(5514)	55 (6)
Cloth, Muslin, Cotton (Parachute Canopy) MIL-C-4279B	Min Max			W F	W F	WF		u F		1b	ng Strengt	h -
Type II	3•7 -	Plain	(1)	1 1	54 56	48 42	170230	0	90%	3.0	2.5	20.00
Type III (Mildow resistant (reated)	3.8 -	"	(1)	1 1	56 58	50 5 0	130190	0	90\$	3.0	2.5	20,00
Cloth, Cotton Äirplane MII-C-5645D(ASG)	4.0 h.5	Plain, 1 up 1 down	(1)	2 28	0 -8 4 80 - 8	(5104) 4 80 80						
Cloth, Cotton, Inflatable Equipment MIT-C-6820D						(5104)						
Class 1 - Plain	- 2,2	Plain, l up	40 ±2	(8)	120 120	40 40						
Class 2 - Tvill	- 8.0	1 down 4 left 1 tv11			90 90	145 140						

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yorn	NOTES
MIL-C-4279B Type II Type III	(2) Type III - treated with a dispersed polyethylenc softener, and with salicylanilide for mildew resistance. Application of softener and mildew inhibitor in combination with dyeing.	paration except optional light scouring. No	(5) Tension in processing greater than necessary for control purposes shall be avoided.	(Not Specification Requirements) Intended Use - In cargo parachutes.
MII-c-5646D	(2) Washed, framed, and medium-cold calendered. Smooth and wrinkle free. Avoid excess roll pressure on cloth. pH: 6.0-8.0.		Bursting Strength, Mullen Points (min.) - 170 (5122). Cloth shall be compatible with air- craft dope. Dope shall dry in 45 min. when applied to finished cloth.	Intended Use - In covering control surfaces, fusclages, and wings of airplanes.
MIL-C-60200 Class 1 Class 2	Smooth surface. Finished cloth shall contain no more than 1.0% methyl ethyl ketone extractable matter.	² 5•		Intended Use - In the manufacture of laminated cloths .r coated loths which provid: gas & air .mpervious properties suitable for components of life refts, flotation bags, and other inflatable items.

NOMENCLATURE	Weight Gz./8q. W.	Weave	Width Inch	Yara Ply	Per Inch	Bruaking Strangth Lb. Min.		Shrink- age Max.	Effic-	Dynamic Absorp- tion Max.	Water Permoc- blity Max.	Foint Value Max.
					(5050)	(5100)	(54 50)	(5550)	(5110)	(5500)	(5516)	
Cloth, Cotton, Sheeting, Plair Weave,	Min Mex			WF	WF	WF		W P				
Trim, Porous HIL-C-SION(ASG)	3.520.5	Plain, 1 up 1 down	(1)	(8)	62 60	60 60	1.75- 260					
Cloth, Cotton, Bashet Weave and Plain Weave MIL-0-9231(USAY)	(a)											
Type I - Plain Weave	- 4.5	Plain, 1 up 1 down	(1)	5 5	86 FG	72 72						
Type II - byb Basket Weave	- 4,5	4x4 Basket (4 warp ends weav- ing as 1; 4 picks in each shed)	(1)	≥ 2	96 80	72 72						

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yorn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-8164A	(2)(15) Cloth shall be given a chemical flameproofing treatment which shall not affect the air permeability of the cloth.	Color - (1-1) - Color shall be obtained by the use of vat dyes. Colorfastn.ss - "good" (5660-5651-5610-5630).	Finished cloth shall be noncorrosive (4.4.2.2). Blongation - 7.5% min. Tearing strength - 4.5 lb, min. (5134). Flame resistance - Time of flaming 0 sec. Time of glow - 0 sec. Time of glow - 0 sec. Length of char - 2.3 in. max. (5902). After oven aging (4.4.2.3.2.2) finished cloth shall not lose more than 10% of initial breaking strength.	Intended Use - On aircraft insulation & soundproofing blankets. Cloth will be used only in areas in aircraft where temperatures will not be high enough to cause cloth to lose its strength properties.
MIL-C-9231 Type I Type II	(2)(15) Washed, framed, and medium-coid calendered, with a smooth even		(a)Ex opt for cloth having a nominal length of 90 in., weight shall	Intended Use - In coated fabrics It is not intended foruse as a covering for airfoils.

(2)(15)
Washed, framed, and medium-cold calendered, with a smooth even surface. Excessive roll pressure shall not be applied during calendering. Type I shall be mercerized, smooth and wrinkle free.
pH: 5.0-9.0 (2811).

(a)Ex ept for cloth Intended Use - In coated fabrics. It is not intended foruse as a covering for airfoils.

NOMENCLATURE		ight Iq. Yu.		Width inch			Per M	inch in.	Lb. I	ngth Min.	Permee- bility	oge Me	æ,	Effic- ioncy	Absorp- tion Max.	Hydro- etotic Pressure low range Min. (5514)	Permos- bility Max.	Point Value Max.
Cloth, Cotton, Natting Min-C-9278(USAF)	Min 5 z	Max 1	Conventional Leno	42 ±1	8	8	6	,	W 85	F 85		¥	P					

Cloth, Cotton, Airplane Curtain HiL-C-9:36(UBAF)

And. 1

6.0 6.5

(1) 2 2 Plain

56 56

(5104) 95 85 (on unaged & oven aged samples.)

Clot'., Satesn, Cotton

Class 1 - Dyed

8.2 5 harness sateen (7) Filling

85 48 140 118 (1) 1 1

Preshrunk 1\$ 80\$

30.00

Class 2 - White

effect

(1) 1 1 85 48 115 100 1\$ 1\$ 80\$

35.00

side shall be face side.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such os thickness	NOTES
			tecring strength, york size, etc.)	(Not Specification Requirements)
MIL-C-9278	(15)	Color - to match shade	Cloth shall retain 85\$	Intended Use - In the manufacture

finish. Treated for mildew resistance.

No. 3412 of Spec. TT-C- of initial breaking strength after milds strength after mildew resistance treating.

of aircrai, wing and stabilizer protectice covers.

MTL-C-9336

(2)(15)

Calendered; smooth and free from Calendered; smooth and free from No. 3400 of Spec. Trwrinkles. Mercerized, either yarn or piece mercerization is acceptable. Treated for flame resistance, yarn or piece dyeing is pH: 4.0-10.0 (after oven aging) acceptable.

(2811). Colorfastness - "good"

Color - to match shade No. 3406 of Spec. TT-C-595. Vat dyed. Uni-

(5610-5660).

oven aging.
Flame resistance: length of flame - 0 sec., length of char - 3.5 in. max.

Cloth hall lose no more Intended Use - In the manufacture than 15% of initial or replacement of aircraft breaking strength after curtains.

MII.-C-10296F Class 1 Class 2

Class 1 cloth shall be singed, desized, and mercerized. Class 2 cloth shall be bleached.

Color - Class 1 (1). Color - Class 1 (1).
Standard sample available (4-6). Class 2:
White to match std.
sample (4). Cloth
shall be fully bleached & may be supplemented with fluorescent optical brighteners. Cloth may not discolor to a greater degree than std. sample. Colorfastness - standard sample available for Class 1 (5660-5610-5600-5680-5651).

Filling effect side shall be identified by stamping that side with the word "Face" at each end of the piece.

Intended Use - In clothing and equipage items.

many to be standard the same of the same o

37.

NOMENCLATURE	Wei Oz./S	ight iq. Yd.	Weave	Wich Inch		ora Hy	Per	Inch		atte	Air Permea- bility	Shrink age Max.		Dynamic Absorp- tion Max.	Water Permea- blity Max.	Point Value Max,
							(50	50)	(510	201	(5450)	(5550	(5110)	(5500)	(5516)	
Cloth, Oxford, Cotton (Permeable) MIL-C-10099E	Min	Mex			w	F	W	F	w	F		W	C			
Type I												Preshru	nk			
Class 1 - Plain fin.	5.2	-	Oxford (Plain, 2	(1)	1	1	124	42	75	60	50	1% 1	\$ 90\$			40.00
Class 2 - Flower resistant treated	5.0	6.8	ends weav- ing as 1)	(1)	1	1	122	40	75	60	20	•	80%			45.00
Type II Class 1 - Plain fin.	6.0	-	"	(1)	1	1	115	44	100	65	20	1% 1	\$ 90%			40.00
Cloth, Cotton, Denim	5.8	-	1 right 2 tvill	(11) 36 min	1	1	65	42	90	38	P	reshru 2 % 2	lk ≸ 85%			30.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-10859E Type I Class 1 Class 2 Type II Class 1	Types I & II, class 1 - singed, desized & mercerized. Type I, class 2 - desized. Type I, class 2 - given an approved cellu- lose reactant durable flame resis- tant treatment. Average flaming time - 2.0 sec. max. Average	Class 1 (1) - standard sample available except for white or natural (4-6). Type I, class 2 - undyed unbleached, natural color. Colorfastness - Types I and II - standard sample available (5600-5610-5600-5682-5651). Type I Class 2 - standard	(5) Type I, class 2 shall have a tearing strength of 4.5 in the warp and 4.0 in the filling (5132).	Intended Use - Types I & II Class 1 - In the manufacture of clothing and mittens. Type I Class 2 - In the manufacture of tent liners.
MII-C-11854E	(2) pH: 5.0-8.5 (2811).	Color (1) - standard sample available (4-6). Colored warp of vat dyed yarn; white fill. Colorfastness - standard sample available (566)-5610-5680-5651).		Intended Use - In the fabrica- tion of uniforms for female personnel.

NOMENCLATURE		sight 'Sq. Yd.	Weave	Width Inch		ern Hy	Per			ngth	Air Permec- bility	Shri age Ma		Effic-	Dynamic Absorp- tion Max.		Water Permos- bility Max.	Point Value Max,
	L						(50	50)	(51	00)	(5450)	(55	50)	(5110)	(5500)	(5514)	(3516)	
Cloth, Wind-Resistant	Min	Max			W	F	W	F	W	F		¥	F					
Sateen, Cotton; Fire and Water Resistant MIL-C-12095D	8.5	9•5	5 harness W sateen (7)	(12) 35 min.	3	3	104	88	170	15 0	2.0			60≸		40 45 min. average)		30.00
Cloth, Cotton, Balloon Mir-C-12318A(CE)				(11)								.		<i>(</i> •)				
Type I - BB	•	2.90	Plair 1 up		1	1	100	100	5 8	58		reshr 1%		(1)				
Type II - HR	•	2.05	1 down		1	1	120	120	40	40		1\$	1\$					
Type III - KK	•	1.40	н	53.5- 54.5	1	1	120	120	24	24		15	1\$					
Type IV - MM	-	4.00	**	41.5-	2	2	80	80	801	80		1\$	1%					
Type V - RR	•	5.65	Basket, 5 up 5 down	41.5- 42.5	3	3	94	94	140	140		15	1\$					
Type VI - SS	•	1.70	Plain 1 up	39 .5-	1	1	120	120	32	30		1%	1%					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yorn size, etc.)	NOTES (Not Specification Requirements)
MII_C-12095D	(2) Singed and mercerized. Water repellent treated. Spray rating (3 tests) 90, 90, 80 min. (5526). Approved durable flame-resistant treatment. Average time of flam- ing - 2.0 sec. max. Average length of char - 5.0 in. max. initially and after 3 laundering cycles (5903-5556). pH: 5.5 min. (2811).	Coler (1) - standard sample available (4-6). Colorfastness - standard sample available (5651- 5671).	Tearing strength - \(\frac{1}{2}\).0 min. in the warp; 3.8 min. in the filling. (5132).	Intended Use - In the fabrication of tentage.
MIL-C-12318A Type I Type II Type III Type IV Type V Type V	(2) Cler, singed, desized and calendere, with a smooth even surface. Excess pressure during calendering shall be avoided. Type RR shall be made from bleached & mercerized yarns. pH: 5.0-9.0 (2810).	other types shall be undyed & unbleached.	(5)	Intended Use - For impregnation with either withetic or natural rubber.

HOMENCLATURE		ight ig. Yd.	Weave	Width Inch	You Ph		York Per In Min.	ch	Breckir Streng Lb. Min	IN P	Air ermeo- ility	Shrink- age Max.	Effic-	Absorp- tion	Hydro- static Pressure low range Min.	Permes- blity	Point Value Max.
							(5050	0)	(5100	n (4	5450)	(5550)	(5 10)	(5500)	(5514)	(5516)	
Cloths, Cable Wiping MHL-C-13194 (SigC)	Min	Max			W	F	WF		WF			WF					
Cloth MC-74, 3x3 in. (Cotton ticking)	8.5	•					80 7	פז	90 7	0							
Cloth MC-75, 5x5 in. (Cotton ticking)	8.5	•					8c 7	70	90 7	0							
Cloth MC-76, 6x6 in. (Cotton ticking)	8.5	-					80 7	70	90 7)							
Cloth MC-79, 3x3 in. (Moleskin)	18.0	-							100 15	0							
Cloth MC-80, 5x5 in. (Moleskin)	18.0	-															
Cloth MC-81, 6x6 in. (Moleskin)	18.0	-															
Cloth, Cotton, Sheeting (For Bandoleers) MTL-C-13453A (ORD)		5.0	Plain	(11) 42 min.	1	1	68 6	56	70 7	o							
Cloth, Wigan, Cotton MIL-C-16375E, Amd. 1																	
Type I	2.5	-	Plain	(1)	1	1	40	34	35 2	5							40.00
Type II	3.6	-	**	(1)	1	1	48 1	40	52 2	8							40.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-13194 Cloth MC-74 Cloth MC-75 Cloth MC-75 Cloth MC-79 Cloth MC-80 Cloth MC-81	Wiping surface shall be given a permanent smooth finish by an application of tallow dressing and soapstone dressing. Each dressing shall be applied miformly and worked into the grain by means of a rotary polisher.		(5)	Intended Use - Wiping cloths are to be used in wiping lead joints on cable splices.
MTL-C-13453A	(2) p#: 6.9-7.3 (2611).	Color - Olive Drab No. 7 - standard sample available. (4-6). Color to be obtained by vat dyeing. Chromiusalts shall not be used fooxidation of the vat dyestuffs. Colorfastness - standard sample available - (5610-5600-5651-5660).	1 -	Intended Use - In making bando- leers for small arms ammunition.
MIL-C-16375E Type I Type II	Firm, plain calender finish. Type I shall have a bending moment (stiffness) of 0.005 in. lb. max. in the unrection of the warm (5002)	Color - Natural.		Intended Use - As interlining for clothing.

NOMENCLATURE	Weight Oz./Sq. Yd.	Weave	Width Inch	Yarn Ply	Per Inch	Breaking Strength Lb. Min. (5100)	Permea- bility		Effic- iency	Absorp- tion Max.	Pressure low range liden,	Permes- bility Mex.	Point Velue Max.
Cloth, Cotton, Tvill, Fire Retardent Treated	Min Max			WF	WF	W F (5104)		WP					
MIL-C-18387D (WEP)	4.2±0.2 untreated (+28% after treatment).	3 steep 3 twill	(1)	2 2	105 100	100 70	25-60	25 25	80%				

68 34 175 150

Cloth, Impregnated; Cotton, Colloid Treated MIL-C-18543A

12.5 untreated Cotton flannel dou. line of filler 37.0 treated thread

(3) 50

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness	NOTES
		000000000000000000000000000000000000000	tearing strength, vorn	(Not Specification Requirements)

MIL-C-18387D

Fire-retardent treated. After 15 launderings, average flame time 2.0 sec. max.; glow time - 2.0 sec.
max.; average length of char - 6.5
in. max. Compounds used for finish shall not deteriorate the cloth during storage or use, or cause burning itching or other harmful effects on the skin. Hand shall be firm, but not stiff or boardy. Stiffness - 0.010 lb. max. (5202).
pH: 5.5-9.0 (2811).

Color - (1-6).

Tearing strength - initial - 6.0 lb. min. after 15 launderings - 2.6 lb. min. (5134). Resistance to abrasion - 1100 cycles to failure, min. (5308).

Intended Use - In the fabrication of lightweight flight garments. An acceptable cloth has been made from Delfos cotton having a staple length of \mathbf{l}_{k}^{1} in.

MIL-C-18543A

Base cloth shall be uniformly napped Color - light gray on both sides, with map leying in
the direction of the warp. Base
cloth shall be impregnated with pyroxylin and an inorganic fire-retardent. Cloth shall not burn down more than 6.° in. in 120 sec. (4.4.1). Shall a form to flexi-bility tests (4.4.2).

Intended Use - In the manufacture of orthopedic appliances, such as artificial arms, body jackets, etc. Also, for repairing and building up foundry patterns.

when the southern were marked through the

NOMENCLATURE	Wel Oz./s	ight iq. Yd.	Weave	Width Inch	Yor Pl	y	Mi	inch n.	Lb.	ngth Min.	Permea- bility	Ma	X.	Effic- iency	Absorp- tion Max.	Pressure blity low range Max. Min,	Point Value Max,
							(50				(5450)	(55:	50)	(5110)	(5500)	(5514) (5516)	
Cloth, Cotton,	Min	Max			W	F	W	F	W	F		W	F				
MIL-C-20313, And. 2												·		Stret	ch (max)	Water Extract	
Grade A	-	5.0		36-42			74	66	70	70				12%	20%	0.5%	•
Grade B	-	3.1	- (40	prer)	į		-	-	30	30						0.5%	
Grade C	-	2.1	-	•		87-	93 7	6 –8 2	28	25						2.0%	
Grade D	•	8.2	3 right 1 twill	*			116	56	180	130				12.5%	12.59	0.5%	
Cloth, Cotton, Oxford and Uniform Tvill, For Summer Uniforms MIL-C-26959A (USAF)																	
Type I - Oxford	4.25	4.75	2x2 0xford	(1)	1	1	90	80	40	90	33	reshr 1%					
Type II - Uniform Twill	6.0	6.5	2 right 1 twill	(1)	2	1	82	50	90	80	30	1%	1%				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness teoring strength, yorn size, etc.)	NOTES (Not Specification Regularments)
MIL-C-20313 Grade A Grade B Grade C Grade D	(2) Grade A - free from starch and calendered. Grade B - free from starch and calendered. Grade C - lightly sized with starch and calendered. Starch shall be undegraded (e.g. no gums or dextrines). Grade D - free from starch and calendered. pH: Neutral ± 0.1%.	Color - white.	Grade A - chall be manufactured from Type 140 sheeting, narrow or wide, split to correct width. Grade B - shall be manufactured from commercial print cloth. Grade C - shall be manufactured from commercial combed lawn cloth. Grade D - shall be manufactured from commercial cloth of a 4-hardness twill.	
dI-C-26959A Type I Type II	(2) Singed, boiled off & mercerized.	Color (1) - standard sample available. Colorfastness - "fair" (5600). "Good" (5660-5610-5682-5651).	(5) Tearing strength - Type I - 9 lb. min. in the varp and 8 lb. min. in the fil Type II - 10 lb. min. in the warp and filling. (5)	1.

NOMENCLATURE	Wel Oz./S	ght Iq. Yd.	Weave	Width Inch		ern Hy	Mi	inch in.	Lb.	ngth Win.	Air Permee- bility	Shrink- age Max.	Effic- iency	Dynamic Absorp- tion Max.	etatic Pressure low range Min.	Water Permos- bility Max.	Point Value Max.
							(50	50)	(51	100	(5450)	(5550)	(5110)	(5500)	(5514)	(5516)	
Cloth, Batiste, Cotton,	Min	Max			W	F		F		F		WP					
Polishing MIL-C-10129A (GL)	,			(11)		•			•			ľ					
Class 1 - Rolls	-	1.9	Plain	(11) 39 2	1	1	90	75	45	35							30.00
Class 2 - Cut pieces	-	1.9	1 up 1 down	min.	1	1	90	75	45	35							30.00
Blanket, Combat Casualt MIL-B-41805	9.85	-	Plain 1 up 1 down	(1)	2	2	52	40	160	110	14						
Cloth, Cotton, Water Repellent MIL-C-43033 (ORD)																	
Class 1.	-	2.6		(1)		8	37 - 93	76-8	22 22	18							
Class 2	-	3.9		(1)			•	-	24	22							

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-401:9A Class 1 Class 2	(2) Singed on both sides, desized, bleached white, and mercerized.	the state and considerable and the state are seen		Intended Use - For cleaning and polishing coated optics.
MIL-B-41805	Treated for fire, water, weather, and made mildev resistant.	Color - dyed in accordance with Type I, Class 1 of Spec. CCC-C-428.	(14)	
MIL-C-43033	(2) Unbleached & free of sizing. Calendered. Finished with a urea formaldehyde resin (paste type), plus a durable water repellent (melamine resin base) as evi- denced by a purple color after test dyeing (4.3.1.1). pH: 5.5-8.5 (2811). Acidity or alkilinity - 0.10% max. (4.3.1.8). Breaking strength loss - 25% max. (4.3.1.9).	Color - natural or as specified.		Intended Use - As cartridge cloth in emmunition.

NOMENCLATURE	Weight Oz./Sq. Yd.	Weave	Width Inch	Yorn	York Per tr Min	ich	Breaking Strength Lb. Min.	Permee-	Shrink— age Max.		Absorp- tion	Hydro- etatic Prossure low range Min,		Point Value Max.
					(505	0)	(5100)	(5450)	(5550)	(5110)	(5500)	(5514)	(5516)	
Cloth, Sateen, Cotton, Flam Resistant Treated MIL-C-43122B	Min- Max			WF	wi		WF		W F					
Class 1 - Natural or tinted	(min) - 8.5 (greige	5-harness	(1)	1 1	80	56	110 II0	5.0	2% 2%	80%	40%			30,00
Class 2 - Dyed, water repellent	+30% ma after f		(1)	1 1	80	56	110 110	5.0	2% 2%	80%	25%			30.00
Cloth, Cotton, Sheeting Blotch Printed HIL-C-43151	6.2 -	Plain	(1)	1 1	50	4 5	68 75		Preshrunk 4% 5%					35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yarn size, etc.)	NOTES (Not Specification Requirements)
MIL-C-43122B Class 1 Class 2	(2) Singed and desized. Approved flame resistant treatment. Average flaming time - 2.0 sec. max. Average length of char - 5.0 in. max., initially & after 15 launderings (5903). Class 2 - water repellent. Spray rating - 90, 90, 80 min. (5526). pH: 5.5 min. (2811).	flame resistant treating imparts color to cloth). Class 2 - Olive Green 107 - standard sample	(5) Filling effect side shall be finished & labeled as 'face". Tearing strength - 6.0 lb. min. Stiffness - 0.0015 in. lb. max.	Intended Use - Class 1 - Tent liners & coveralls for explosive handlers. Class 2 - Coats and trougers for firemen.
MTL-C-43151	(2) Desized. boiled off, and scoured. Bleach'ng and functional finishes are r.ohibited. Prior to printing the cloth shall be lightly napped on one side - standard sample available for degree of nap after over-printing. Blotch printing on napped side only, using a pigment binder system. Binder shall be capable of resisting chlorine emitting agents. Degree of strike-through not to exceed standard sample.	Color - Olive Green 107, to be obtained by blotch printing on one side only. Standard sample svailable (4-6). Colorfastness - standard sample available for dyed side (5600-5610).		Intended Use - For outer garment to protect environmental clothir against chemical warfare agents under cold-wet and cold-dry conditions.

NOMENCLATURE		ight iq. Yd.	Gasue	Width Inch	Yer Ply	,	Per la Min	nch I.	Lb. Min	Permea- bility	Max.	Effic- iency	Mox.	static Pressure low range Min.	Permea- bility Max.	Point Value Max.
						. 1	(505	0)	(5100)	(5450)	(5550)	(5110)	(5500)	(5514)	(5516)	
Binding, Textile, Bore Cleaning; and Swabs, Small Arms, Cleaning MIL-1-43318	Min	Mex			w	F	w	F	WF		WP					
Type I - Rolls (Bindings) Class I - 2½" wide Class 2 - 4" wide	4.7	5.1 5.1	Plain		1	1	43 43	39 39	40 30 40 30	! !						
Type II - Cut pirces (Swabs) Class 1 - 2" sq. Class 2 - 2-9/16" sq Class 3 - 2.187" in dismeter, cir.			** **		1 1		43 43 43		40 30 40 30)						
Cloth, Cotton, Organdy	1.2	1.6	Plain			76	5-8o7	70-7 ¹	4 29 20)						

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness tearing strength, yorn size, etc.)	NOTES (Not Specification Requirements)
MIL-B-43318 Type I Class 1 Class 2 Type II Class 1 Class 2 Class 2 Class 3	Scoured, with an evenly developed napped surface on one side.	Color - natural, unpleached.		
MIL-C-81252		Color - white (natural).		Intended Use - As a restraining material for parts of rocket motors.

RARRES

COTTON CLOTES - WOVEN

Textile Test Nethods - CCC-T-191b

Method	Title
	Chount cal.
2610 2611 2810 2811	Honfibrous materials, acid method. Honfibrous materials, enzyme method. Acidity (pH), colorimetric method. Acidity (pH), potentiumetric method.
	Construction
5020 5030 5040 5041 5050	Width of cloth. Thickness of cloth. Weight of cloth; cut, roll, or bolt method. Weight of cloth; small specimen method. Yarns per inch in woven cloth.
	Mechanical
5100 5102 5104 5110 5122 5132 5134 5136 5202 5206 5304 5308 5410	Strength and elongation, breaking, of woven cloth, grab method. Strength and elongation, breaking, of woven cloth, cut strip method. Strength and elongation, breaking, of woven cloth, ravel strip method. Sevability; strength-of-seam method. Bursting strength, diaphragm. Tearing strength, pendulum method (Elmendorf). Tearing strength, tongue method. Stiffness, directional; cantilever bending method (Tinius Olsen). Stiffness, directional; cantilever bending method (Pierce formula). Abrasion resistance; oscillatory cylinder (Wyzenbeek) method. Abrasion resistance of cloth: Uniform Abrasion (Schiefer) method. Slippage resistance of yarms in cloth.
	Air Permeability and Water Resistance
5450 5500 5502 5514 5516 5526 5530	Air permeability, calibrated orifice method (Frazier). Water resistance, dynamic absorption. Water resistance, cloth, immersion absorption. Water resistance, hydrostatic pressure, low range. Water resistance, hydrostatic pressure, water permeability. Water resistance with hydrophobic finish; spray method. Penetration resistance of cloth; feathers and down, tumbling method.
	Shrinkage Resistance
5550 5556	Shrinkage in laundering; cotton, linen, and mixed cotton and linen cloth. Shrinkage in laundering; mobile laundry method.
	Colorfastness
5600 5610 5612 5620 5622 5630 5632 5651 5660 5670 5671 5680 5680	Chlorine bleaching; cloth. Laundering, cotton and/or linen; Launder-Ometer. Laundering, cotton and/or linen cloth; wash wheel. Dry cleaning (petroleum solvent). Wet cleaning (with dry cleaning). Water, cold, Salt water and soap. Crocking of cloth. Light; accelerated (Fade-Ometer). Weather; accelerated method (Twin Arc Weather-Ometer). Weather; accelerated method (National Weathering Unit). Perspiration; perspirameter method. Perspiration; tube method.
	Mildew Resistance
5750 5760 5762	Mildew resistance; direct inoculation, pure culture, sterile specimen method. Mildew resistance; mixed culture method. Mildew resistance; soil burial method.
	Deterioration
5804	Weathering; accelerated (National Weathering Unit).
	Fire-Resistance Thermal Tests
5902 5903	Flame resistance; vertical. Flame resistance of cloth; modified vertical. 46.

46.

CENTRAL NOTES

WOOL CLOTHS - WOVEN

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) Width exclusive of selvage.
(3) Colorastching.
(4) Bid sample and laboratory report.
(5) Weave diagrams or instructions.

(6) Finishing and loading materials use prohibited.
(7) Preproduction sample approval.
(8) See specification for woven design and insignia requirements.
(9) See specification for applicable tolerances.

- CONTRACTOR - -

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

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	•													
1														
1					WOO	or cro	THS.	-WOY	EN		_			
			140.004							-				
1	MOMENCLATURE		YARN			Wool	-	Walcht	Weave	Thick-	Yarns	Breaking	Shrink-	Pok
	NOMENCLATURE	Fiber	Grade U.S.D.A.	System	Pły	Wool Content	Width	Waight Oz/ Sq.W.	Weave	Thick- ness	Min.	Strength Lb. Min.	Shrink- ege Mex. (5556)	Vole
	Bunting; Wool CCC-B-BO1, Amd. 3		Grede U.S.D.A.	System Vorsted	Ply V F		Inch	02/				Strength	ege Max	Poid Vole Mo

Cloth, Serge, Wool; Wool and Mylon MIL-U-823E, And.2 (See also under Mixed Fiber Cloths)

Type I - Wool Class 1 - 18 oz. Class 2 - 16 oz. Class 3 - 16 oz. Class 5 - 15 oz. Class 7 - 12 oz.	and/or pulled	60's 64's 62's 64's	Bradford, French or American	2x1 2x2 2x2 2x2	95\$ min.	(2) 60 min. "	- 18.0 2 - 16.0 2 - 16.0 4-harness - 15.0 right - 12.0 twill	68 70 74	54 64 56 70	100 80 80 70	4 2 2 4 4 4 3 8 59 - 3 8 59 - 3 8	10.00 10.00 10.00 10.00
Class 8 - 12 oz.		•		2×2	**	**	- 12.0 (Based on	70.	62	80 70		10.00
Type II - Wool							lin. yd. 56" wide)					

and Rylon Class 1 - 18 oz. Class 2 - 16 oz. (See under Mixed Fiber Cloths)

Cloth, Wool, Gabardine (Venstian), 13-Curace Blue 84 MHL-C-324

Fleece and/or pulled 64's

WOC.

2x2

the state of

(lin. yd. (2) of 56 in.) 56 - 13 4/1 5-harness W-faced watin satin 3-counter (5)

(5**59**0) 92 58 110 60 5**%**-3**%**

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as techniq strength, etc.)	NOTES (Not Specification Requirements)
ccc=B-801		Color (1) - Standard sample available. Colorfastness - Standard sample available (5651- 5630-5632-5660).	Bunting shall be made with two non-raveling edges, woven single width.	
MII-C-823E Type I Class 1 Class 2 Class 3 Class 5 Class 7 Class 8 Type II Class 1 Class 2	Fulled, sheared, and otherwise finished so as to provide stability of both finish and color - std. sample available. pH: 5.5-8.5 (2811).	Color, colorants, and methods of coloring (1). Standard sample evailable (3). Colorfactness - standard sample available (5660-5622-5680-5651).	(h) Pre_roduction sample app; wal where specified.	Intended Use - In service, semi- dress, and dress uniforms, and functional clothing.
MIL_C-82\s	Scoured, closely sheared, well pressed, clear face, with a firm reel or handle - standard sample available. pH: 4.0-8.0 (2811). (6)	Color - Blue 84. Produced by a blend of wool tops dyed with vat or chrome dyes using 1 or more shades of blue with pearl (3). Colorfastness - "good" (5660-5651-5682-5622).	(7)	Intended Use - In the manufacture of clothing itema for the Air Force.

NOMENCLATURE		YARN			Weel	wien	Weight	Wages	Thick-	\ \ \ \	rrs	Grec	440.0	-	Point
HOMENCEATURE	Fiber	Grade U.S.D.A.	System	Ply	Content	inch	Oz/ Sq.W.		ROOS	Per	Inch Inch	Stre	ngth	660 (5556)	Value Mex.
Blanket, Bed (Wool)	2						Ma: Min	:		W	F	W	F		
Type I - Twill weave Grade A - 100% new wool Size 3 - 66x90" Color - Olive Green 116 Grade B - Nev	Grade B bla	Theece and ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	l/ox pulle - 60's - 60's exp and f	ed wool	95\$	())))	lanket 1.5 z/lin d. min. (a) Pased on			28	30	50	(1	Preshrunk 6%-4% rel-(felt- m- ing) ion)	
wool & repro- cessed blend Size 1 - 60x84" Color -	Reprocess	; ,) 54's sed wool o	- 60's	ed woot	95\$		in. yd. 6" wide)			28	30	45	45	6 4- 4 5	
Gray 3119 Size 2 - 66x84" Color - 011ve	35% (max.		ystem.		95\$					26	30	45	45	64-44	
Green 118 Size 3 - 66x90" Color - Olive Green 118					95≸					28	30	45	45	64-44	
Type II - Double Woven Grade A - 100% new wool Size 3 - 66x90" Color - White with stripes					95≸	b 2 0	intrested lanket 3.0 z/lin d. min. (a)	double woven twill 1 face 2 twill 2 back (5)		37	39	45	45	6 4- 4 \$	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-B-844F Type I Grade A Size 3 Color-118 Grade B Size 1 Color-3119 Size 2 Color-118 Size 3 Color-118 Type II Grade A Size 3 Color	Finished blanket shall be fully napped - standard sample available. Treated for resistance to felting shrinkage by an oxidation or melamine formaldehyde resin process. Process shall not increase alkali solubility of treated blanket more than 6% over the untreated blanket. Stiffness of treated blanket shall not be more than 0.011 load 1b. (2800-5202). pR: 4.0-8.0 (2811).	Color - Gray, to be obtained by stock dyeing with suitable chrome dyestuffs to match Navy Shade 3119 (3). Olive Green No. 118, to be obtained by blending olive green dyed wools with white wool. Chrome acid milling or neutral dyeing premetallized dyes shall be used (3). White - unbleached white (3). Maroon - Yarn used for weaving stripes for white blanket shall be chrome dyed a Maroon No. 165 (3). Standard sample available for all colors. (8) Colorfastness - Type I blankets & maroon stripes of Type II blankets standard sample available (5660-5614-5651).	(a) Resin treatment for producing shrink resistance shall not increase the weight of the untreated lanket by more than	Intended Use - Type I, Grade A or B, size 3, olive green is a medical field blanket. Typ: I, Grade B, size 1, gray is a Mavy crew blanket. Type I, Grade B, size 2, olive green is used by the Army, Mavy, Air Force and Marine Corps. Type II, Grade A, size 3 is 1 hospital blanket.

NOMENCLATURE		YARN			Weol	Widt	Weight	Wagye	Thick-	Γ	res	Breakis	a Shrink-	Point
NO ENCONO	Fiher	Grede U.S.D.A.	System	Ply	Content	Inch	02/ 54 W.		MAGS	Per		Strong Lb. Mi (510)	h ege h. Max.	Value Max.
Cloth, Wool, Velour, 25-Ounce, Nine-55 Kri-C-585, And. 1							Max Min	1			F	WF		
Type I - Ving n Wool	(a) 60% fleece end/or		Voolen	lxl		(2) 56	28 oz/ lin yd	face warp,		60	36	80 40	3 } \$-2}\$	
Type II - Virgin Wool & Reprocessed Wool	pulled wool 40% noils (max.)		Woolen	121		56	*	interlaced with single filling (5)					314-214	
Cloth, Fleece, Wool 21.5 Ourse MIL-C-2009C	Fisece and/ or pulled wool	50's	Woolen	lxl	95% min.		21.5 = oz/lin yd (based of yd of 56 in.)	2 broken 2 twill 2-right 2-left		28	30	50 50		15,00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-848 Type I Type II	Scoured, fulled, napped, and free from wagetable matter (carbonized if macessary), with a uniformly developed velour fir ah on the face equal to the standard sample. Standard sample for both types shall be from Type I cloth. pH: 4.0-8.0 (2810-2811). (6)	Color - color shall match blue - 85 (3) & shall be stock dyed with chrome or vat dyes. Colorfastness - std. sample available (5651-5622).	(7) (a) Type II cloth- colored noils or repro- cessed wool may be used in the blend.	Intended Use - In the manufacture of clothing items for the Air Force.
MII_C=2049C	Scoured, fulled, with both sides mapped. Standard sample available. Map fibers should offer considerable resistance to lifting with a needle (6.4). pH: 4.0 = 8.0 (2811).	Color - Olive drab No. 118, produced by blending stock dyed wools of dive green with white wool - standard sample avail- able (3). Colorfastness - standard sample available (5680- 5622).	,	Intended Use - In the removable liner for firemen's Olive Drab Shade No. 7 coat.

NOMENCLATURE		YARN			Wool	Widt	h Weight	Weave	Thic'	1 10	ras		مجند	Shrink-	Point
HOMEHOCATORE	Fiber	Grade U.S.D.A.	System	Ply	Content	inci			2	~	Inch	SF 45		990	Value Max.
Cloth, Flammel, Woo 103 Ounce Shrink Resistant NIL-C-2184D	Place end/or pulled wool		Bradford French or America:	V P	95% min.		Max Min 12.6 10.5 oz/lin yd (besed on lin yd. of 56 iv.	2 right 2 tvill		W 68	68		F 55	5%-0% relamation 4%-3% felting	10.00
Cloth, Flannel, Woo Lining: 12 Ounce Mil-C-3191D	Flacce and/or pulled wool	60's	Wollen	lxl	95≸ min.	(2) 56 min.		2 right d 2 twill 4-harness		33	33	35	30	5 %-3 %	10.00

NUMERCLATURE	FINISH	COLORFASTNESS	(Such as tearing strength, etc.)	(Not Specification Requirements)
MIL-C-2184D	Scoured, sheared, : A pressed. Standard sampir available. Given an approved inkage control treatment by an imidation resin or by interfacial polymerization process. Stiffness of treated cloth shall be 0.003 load lb. max. in the warp direction (5202). When oxidation method is used, the alkali solubility of the treated cloth shall not have increased over 64 (absolute)(2800). pH: 4.0-8.0 (2811).	Color (1) - standard sample available (3). Color shall be obtained by blending top dyed wool Colorfastness - standard sample available (5660-5680-5651-5614).	•	intended Use - As shirting material for both male and female personnel.
MITC-3191D	Scoured, fulled (carbonized if necessary, napped & sheared on the face & on the back. Standard sample available.	Color (1) - standard sample available (3). Colorfastness - standard sample available (5622- 560 5651)		Intended Use - In removable liners in men's and women's wool overcoats.

MOMENCLATURE		YARN			Wool	Width Weight Weave			Thick-	V0	TRE	Brec	tina	Shrink-	Point
HOMENOCATORE	Fiber	Grade U.S.D.A.			Content Inch		Inch Oz/ Sq. W.		nees	nees Per Inch Min. (5050)		Street Lb.	ngth Min.	oge Mrs. (5556)	Value Max.
Cloth, Barathes,				W /			Max Min			W	F	W			
MIL-C-3727C Type I = 14.0 oz.	Floore	70's	Bradford Franch or	252	95\$ min.	(2) 60 min.	- 14.0 oz/lin yd	8-har- ness		80	86	70	85	4 ≸- 3 2 ≸	15.00
Туре III - 15.0 о		7Ω'≉	American		H	min.	- 15.0 oz/lin yd (Based on lin yd of 56 in.)	barathes (5)		85	75	125	100	4 4-3<u>1</u>4	15.00
Cloth, Elastique, Wool WIL-C-3738D						(2)									
Type I - 19 oz.	Fleece and/or pulled	70's	Bradford French or American	23/2	95\$ min.	60	- 19.0 oz/lin yd	(5)		128	98	160	90	5 1 1 1 1 1 1 1 1 1 1 1	15.00
Class 2 - 18 oz. Class 2 - 18 oz.		64's 70's	H H	23/2 23/2	"		- 18.0 oz/lin yd	(5) (5)		124 124	80 80			64-48 64-48	15.00 15.00
Type III - 16 cs.		70's	Ħ	2x2	"		- 16.0 oz/lin yd (Based on lin yd of 56 in.).	(5)		138	96	130	70	5 1 4-3\$	15.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MII-C-3727C Type I Type III	Scoured, fulled and sheared - standard sample available. pH: 5.5 - 8.0 (2811).	Color (1) - standard sample available (3). Produced by blending the proper shades of stock or top dyed wool, and obtained by the use of chrome, vat, or neutral premetallized dyes or combinations thereof. Colorfastness - standard sample available (560-5651-5622-5680).		In ended Use - In the manufacture or uniform items.
MJL-C-3738D Type I Type II Class 1 Class 2 Type III	Face shall be clear and closely sheared - standard sample available. pH: 5.5 - 8.5 (2811).	Color (1) a standard sample available (3). Color shall be obtained by stock or top dyeing, piece dyeing will not be permitted. Colorfastness - standard sample available (566)-5651-5662-5680).		Intended Use - In the manufacture of clothing items.

NOMENCLATURE		YARN			Wool Width		Width Weight Weave		Thick-	T	784	Bracking		Shrink	- Peint
HOMENCEATORE	Fiber	Grode U.S.D.A.	System	Ply	Content	inch	Oz/ Sq. W.	W0000	nees	Per	inch in.	314	00	(3536	Value Mex.
Cloth, Wood, Gabardine, 12 Ounce HIL-C-6403 (USAF) Type I - Blue 84 Type II- Gray 167	Floace and/or pulled wool	64's 64's	Worsted #	W F 2x2 2x2		(2) ~6		2 right of 1 twill			F 52		F 50	5%-3% 5%-3%	
Cloth, Gebardin Wool, Polyester and Wcol Wil-C-101767, (See also under Mixed Fiber Clystee Type I - Wool	rleece	(0)			ned.	(2) &				06	10	00			(All shades but 1-1)
Class 3- 11 oz. Class 5- 14.5 or. Clas: '- 16 oz. Type II - Polyante wool blend (See also Mixed Fiber Cloths)		Gets elite eate	Bre .ord Franch or American	242 242 243	95\$ 95\$ 95\$	min. " (t	- 11 - 16 cased on lin yd (56 in)	2 right 1 twill 5 2 right 2 twill		86 112 120	56 60	80 115 120	65	4#-3# 5#-3# 4#-3#	10.0 15.0 (H-1)
Cloth, Flannel, Wool Undercollar Cloth MTL-C-15062E	Fleece and/or pulked wool	56's	Woolen	lxl	95≸ min•		12.5 10. 0x/lin yd			26	23	24	16		15.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	JIHER REQUIREMENTS (Such as learing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-6403 Type I Type II	Scoured, closely sheared, well pressed, clear faced, with a firm feel or handle. Standard sample available. pH: 4.0 - 8.0 (2610-2811) (6)	Color - Type I shall match Blue 84 & be pro- duced by a blend of wool tops dyed with vat or chrome dyes using one or more shades of blue with pearl (3). Type II shall match Oray 167 and be produced by vat or chrome dyes (3). Colorfastness = "good" (5660-5651-5622-5680).		
MIL-C-10176F Type I Class 3 Class 5 Class 7 Type II	Scoured, brushed, sheate, and singed, pressed an dw/e'. Standard sample available. pH: 5.5 - 8.5 (2811).	Color (1) - standard sample available (3). To be obtained by blending top or stock dyed wools. Colorfastness - standard sample available (5622- 5651-5660-5680).		Intended Use - In the manufactur of clothing.
MTI-C-1506?E	Clean, fulled (carbonized if necessary), pressed, with a face evenly sheared. Finished cloth shall have finish 5 hand to match standard sample. ph: 4.0 - 8.0 (2811).	Color (1) - standard sample available (3). Piece dyeing is permitted. Colorfastness - standard sample available (5651- 5622-56-50).		Intended Use - As a facing for tunderside of the collar of the uniform coats and overcoats.

WOC! CLOTHS-WOVEN

NOMENCLATURE		YAMIN			Wool	Width	idesight	Weeve	Thick-	Y.	rh3	Breaki	na Shrink-	Point
NONEMBERIORE	Fiber	Grade U.S.D.A.	Hystom	Pty	Content	inch	0z/ 54.74		ness	Per		Streng Lb. Mi (510)	th age	Value Max.
Cloth, Wool, Serge [128 Ounce] RIL-C-15,068 (SA)		5-0-		W F			Max Min				F	WF		
Type I - Unshrunk, untrested	Flance and/or	62's	Krested	2 x1		(2) 55 1	(e) 3.5 12.5	2 right 2 tvill		6)	63	80 60	4 %- 2} %	
Type II - London shrunk untrested	pulled wool	62's		2:1			3 .5 12. 5			70	64	80 60	2%-1%	
Type III - London water repellent treated shrunk	•	62's	v			" 1	3.5 12.5	n		70	64	80 60	2\$-1\$	
Cloth, Wool, Plannel; Green RHL-C-157796 (MC)	Flace and/or pulled wool	58°s		lxl		(2) 58 10 00	0.1 9.1 s/lin yd	2 right 2 twill		7 2	66	50 40	(5590)) 4 5–2 5	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-15506B Type I Type II Type III	Types I & II = closely sheared, with a clear finish. Type I = unshrunk; Type II = London shrunk. Standard sample for hand & finish. Cloths shall contain no scaps, detergents or finishing materials that will interfere with the application or efficiency of water repellent compounds. Type III, same as Type III, but with a durable water repellent treatment. Spray rating: 90 (min) initially; 70 (min) after one dry cleaning (552°). Hydrostatic Pressure: 8 in. initial, 6 in. after one dry cleaning (551°). pH: 4.0 = 8.0 (2810-2811).	Color (1) - stock or top dyed with chrome dyestuffs to metch standard sample (3). Colorfastness - sample of reference available (5660-5680-5622-5651).	include h or more white	Intended Use - In the manufactur of uniforms for female Naval personnel.
WTT 0 157700	Eullad and a warrant summat sharest	Zalon Clash shall be		**************************************

MIL-C-15779B

1. 种型。

Fulled and covered, napped, sheared and pressed, with the soft feel or handle characteristic of flannel. Standard sample available. pH: 4.0 - 8.0 (2810-2811).

Color - Cloth shall te stock or top dyed to match standard shade Green 2218. Green color to be produced by blending colored wools with white wool (%). Colorfastners - standard sample available (566)-5051-5622-5614-5680-56-2).

Intended Use - In the manufacture of shirts.

NOMENCLATURE		YARN			Wool	ool Width Weight Weave		Thick-	Yorne		Brei	محنف	Shrink-	Point	
NOME TO CAT ONE	Fiber	Grade U.S.D.A.	System	Ply	Content	inch	02/ \$q.W.		nees	Per	inch In. 50)	Stre	ngth	690 (5556)	Value Max.
Cloth, Wool, Kersey; 17-Ounce; Green				W P			Max Min			W	F	W	F	(5558)	
WIL-C-15780B (MC)	Pleace and/or pulled wool.	60°s	Woolen	lxl		(1)	18.0 17.0 oz/lin yo	2 broken 2 twill 4-harness 2-right, 2-left		60	58	70	54	(5558) 3 <u>2</u> 5-25	į
Cleth, Melton, Wool MIL-C-1629 F (SA) Amd. 1 Type I · 16 cz.	Fleece	4.	W-555-		ord.	(2) 56	37.036			6		-0		(5590)	
Riue 3313	mulled		Woolen	lxl	95% min.		oz/lin y	2 right 1 twill		60		-	46	4 % -3 %	10.00
Type II - 22 0%. Chase 1 - Bive 331% Class 2 - Bive 3315 Class 3 - Bive 3327	Aroj	60's	*	ι x l	,	56	24.0 22.0 oz/lin y	o 3 erow i I foot		55	45	60	60	<u>1</u> 24-24	10,00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
MIL-C-15780B	Type and character of finish shall conform to the standard sample. pH: 4.0 - 8.0 (2810-2811).	Color - cloth to be stock dyed and blended with white wools to match standard shade Green 2205 (3). Colorfastness - standard sample svailable (5660-5651-5622-5680-5682).		Intended Use - In the manufacture of enlisted men's garrison caps, service cap frame covers, uniform coats and trousers, and men's and women's overcoats.
MIL-C-16291D Type I Type II Class 1 Class 2 Class 3	Type and character of finish shall mutch standard sample. Cloth shall be scoured, fulled (carbonized if necessary), face evenly sheared and well pressed. When specified, cloth shall be treated with moth repellent in accordance with method specified by contracting officer.	Color (1) - Type I shall match Blue 3313. Type II Class 1 shall match Blue 3315; Class 2 shall match Blue 3315; Class 3 shall match Blue 3327 (3). Color shall be produced by stock dyeing with auitable chrome dyestuffs. Colorfastness - standard semple available (5614-5622-5651-5660-5680).	Type II, air permeability; 20 ft $\sqrt{3}$ minute	Intended Uss - In the manufacture of clothing items.

NOMENCL ATURE		YARN		Wool Width Weight Weave This		Thick-	Vn	ras		Breaking Shrink-		Point			
HOMENOCATORIC	Fiber	Grade U.S.D.A.	System	Ply	Content	lech	0z/ Sq. W.	w	nees	Per		Stre Lb. (5)	nath	ege Mex. (5556)	Value Max.
Cloth, Flamel, Woo Mil-C-16291D (BA)	Flance and/or pulied wool	60'a	Woolen	V F	95≸ min.	(2) 56	Max Min 12.0 11.0 oz/lin yo	2 right 1 2 twill		5 6	#8	W 35	F 35	(5590) 324-44	10.00
Cloth, Whipcord, Wo MIL-C-17248C (SA)	Flence and/or pulled wool	70's	Worsted	2x2	95≸ min.	(2) 60 min.	- 17.0 oz/lin yd ri	41 22 63° 1ght tvill		104	84	98	52	(5590) 4 ⊈ -3≸	10,00
Cloth, Billiam Mil-C-17566A (SA)	Staple fleece and/or pulled wool	56's	Woolen	ixi		60 (2)	- 17.2 oz/lin yd	2 2 right 1 1 twill		50	40	50	45		

NAMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as teoring strength, etc.)	NOTES (Not Specification Esquirements)
MIL-C-16291D	Flannel finish, well presend, with a lustrous face, map and hand equal to that of standard sample. When specified, cloth shall be treated with moth repellent by a method specified by contracting officer.	Color (1) - standard sample available (2). When blue is specified, shade shall be Blue 3311 when Olive Drah, shade shall be OD 3705. Color shall be produced by stock dyeing with chrome dyestuffs. Colorfastness - standard sample available (5660-5620-5680-5614-5670-5651		Intended Use ~ I. The manufacture of uniforms for more Haval personnel.
MIL=C=17249c	Scoured, with hand and finish equal to approved sample. Face shall be sheared and well pressed. When specified, cloth shall be treated with moth repellent by a method specified by contracting officer. pH: 4.0 = 8.0 (2810-2811).	Color (1-j). Standard sample available. To be produced by stock or top cycing with chrome dyestuffs. Blue shall match Blue 3354. Green shall match Green ½41. Colorfastness - standard sample available (5614-5622-5651-5660-5680).	(7) Cloth shall have a min. seam efficiency of 80% (5110).	Intended Use - In the manufacture of uniforms.
MTL=C=17566A	Finish and hand equal to similar! sample. Shoured, fulled, free from reweitable matter (carbonized if necessary) and face evenly shoured.	Colorfustness - standard	(T) Cloth chall have a selvage of 1 (±1/16) in. on each side.	Intended Use - As table cloths.

NOMENCLATURE		YARN			Weel	Width	Weight	Weave	Thick-	w.	106	-	4400	Shrink	
HOME PROPERTY.	Fiber	Grade U.S.D.A.	System	Ply	Content		02/ Sq. W.		Rees	Per	inch in.	ST AB	2 F 3	6 de la companya de l	, Y
Cloth, Tropical; Wool; Folyester/Wool Mil-C-2115E, and (See also under Kined Fiber Cloth	1			V F			Mex Min			w	F	W	F		A11 d
Type I " Wool Class 1- 10.5 os. Class 2- 8.5 os. Type III - Poly- ester-wool blend (See under Mixed Fiber Cloths)		64's 64's	Bradford French or American	252 251	95\$ min.	(2) 60 min.	(9) 11 10 - 8.5 (Based on lin. yd. 56" wide)			50	46	55	50		but 16 12 15 (N-:
Right, Fire; Wool With Case MIL-B-59309 (NO)	Reprocessed wools, blend	1 50°s	Woulen					2 broken 2 twill 2-right, 2-left		15	15	22	16	(555k) 6 4-6 \$	

NOMENCLATURE	FWHSH	SHADE AND COLORFAGTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES Old Specification Requirement
MIL-C-21115E Type I Class 1 Class 2 Type III	Scoured, brushed, sheared, and singed, pressed and decated to provide a finish equal to that of the standard sample. Finish-cloth shall show no more creping after shrinkage test (5558) than standard sample. pH: 5.5 - 8.5 (2811).	Color (1) - standard sample available (3). Color shall be obtained by blending ituck and top dyed wools. Colorfatness - standard sample available (5622- 5651-5660-5680).		Intended Use - Class 1, in the manufacture of shirts, costs, trousers for officers and enlipersonnel. Class 2, for neckt:
NII-B-59309	Blanket shall be free from vege- table matter and shall be frilled and napped to produce a soft fin- ish. Blanket shall be fire- resistant.	Colorfastness - "good" (5671-5616-5651).		Intended Use - For extinguishin fires on personnel.

HOMENCLATURE		YARN			Woel	Widt	h Weight	Weave	Thick-	Yo	rne	Braz	ties	Shrink-	Point
HOMESUCATOR.	Fiber Grade System Ply Content Inch Oz/ Sq. Ye.			necs	A MISS	Inch In. ISO)	Stre Lh. (5	agti Min. OO	ege Mex. (5556)	Value Mgx.					
Cioth, Brogdeloth, Wool, and Wool Systhetic MIN-C-52252 (See also under Mixed Fiber Clothe	s) .	-		v z			Max Min	-		₩	F				
Type I - Wool Class I- 1A-5 os.	end/or	<i>6</i> 4's	Woolen	1x1	95≸ min.	(2) 56	15.0 14.0	2 right 1 twill		54	50	45	42	(5590) 5%-4 \$	15.00
Class 2- 15.5 os. Nue Class 3- 16.5 os.	wool	70's	•	lxl	**	54	16.0 15.0	1,00111		56	55	50	45	24-144	15.00
Elue Class 4- 16.5 or,		70's	•	lxl	*	56	17.0 16.0	*		60	58	40	35	324-324	15.00
Scarlat or Black Class 5- 23.0 os.		60's	**	121	**		17.0 16.0	•		54	54		45	314-214	15.0 0
Mue		70's	•	1x).			24.0 22.0 oz/lin yd	•		90	64	65	40	4 % -3 %	15.00
Type I: - Wool/ Synthetic blend (See under Missd Fiber Cloths)															

NOMENCLATURE	FWISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as tearing strength, etc.)	NOTES (Not Specification Requirements)
NHI-C-82252 Type I Class 1 Class 2 Class 3 Class 4 Class 5 Type II	Scoured, fulled, free from vegetable matter, with a uniformly developed broadcloth finish. Finished cloth shall be preced 8 have a lustrous face finish like that of the standard sample, when specified, cloth shall be treated with moth repelieut in accordance with the nethod specified by the contracting officer. pH: \$4.0 = 8.0	Color - for Type I, Classes 1,3,4 and 5, color shall be produced by stock dyeing with chrome dyestuffs to match approved std. shades (3) Class 1 - Blue 3319 Class 3 - Blue 3320 Class 4 - Scarlet 2501 or Black (1) Class 5 - Blue 3321. Type I, class 2 & Type II, class 1 shall be produced with indigo dye, Blue 2307. Colorfastness - standard sample available (5660- 5662-5680-5651).	(7)	Intended Use - In service, semi- dress, and dress uniforms and functions? clothing.

REFERENCES

WOOL CLOTES - WOVEN

Textile Test Nathods - CCC-T-191b

Method	Title
	Chemical
2810 2811	Wool fiber damage, alkali solubility method. Acidity (pH), colorimetric method. Acidity (pH), potentiometric method.
	Construction
5050	Yarns per inch in woven cloth.
	Mechanical
5100 5202	Strength and elongation, breaking, of woven cloth, grab method. Stiffness, directional; cantilever bending method (Timius Olsen).
	Air Permeability and Water Resistance
5514 5526	Water resistance hydrostatic pressure, low range. Water resistance with hydrophobic finish; spray method.
	Shrinkage Resistance
5556 5558 5590	Shrinkage in laundering; mobile laundry method. Shrinkage, relaxation; wool cloth. Shrinkage in sponging; cloth.
	Colorfastness
5614 5620 5622 5632 5632 5651 5660 5670	Laundering of wool, silk, rayon cloth; Launder-Ometer. Dry cleaning (petroleum solvent). Wet.cleaning (with dry cleaning). Water, cold. Salt water and scap. Crocking of cloth. Light; accelerated (Fade-Ometer). Weather; accelerated method (Twin Arc Weather-Ometer). Weather; accelerated method (Mational Weathering Unit).
5680 5682	Perspiration; perspirameter method. Perspiration; tube method.

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GENERAL NOTES

STATHETIC OR MIXED SYNTHETIC CLOTHS - WOVEN

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

- (1) As specified.
 (2) See specification for requirements after aging, weathering, water immersion, etc.
 (3) Colormatching.
- See specification for weave diagrams or instructions.
 Midth inclusive of selvage.
 Restrictions on use of sulfur dyes.

- (7) See specification for applicable tolerances.
 (8) Nonfibrous, etc., restrictions.
 (9) Width exclusive of selvage.
 (10) Use of finishing and loading material prohibited.
 (11) Preproduction sample.
 (12) Bid sample and laboratory report.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

SYNTHETIC OR MIXED SYNTHETIC CLOTHS-WOVEN

11011E1101 17110F	L		YARN					100				Air		Point
NOMENCLATURE	F	ber	Pty	Yo	ras	Width Inch	02/	Weave	Yorns Per in.	Strength	Breaking Tearing Strength Strength P		Shrink- age	Value
	Melting Point	Туре	•	Denier	Filo- ment		Sq Yd		Min. (5050)	Lb. Min. (5100)	(5134)	bliity (5450)	(5556)	Max.
creening, Non- etallic, Insect L-S-125, And. 3(G) (See also under Coated Cloths) Type I - Polyvinyl idene chloride Class 1- 0.0120" disseter Size 16x16 Size 18x18 Size 20x20 Size 22x22 Class 2- 0.0150" dismeter		Poly- vinyl- idene Chlor- ide	w F	WF	WF	(1) (1) (1) (1) (1)	Min Max			Initial Bursting Strength (1b/in') (2) 160 160 165 170 175	min. tensile strength of fila- ments 26,000 pai	be	W F (After at aging) 5% 5% 5% 5%	
Size 16x16 Size 18x14 Size 18x18 Size 20x20 Size 22x22 Type II - Plastic Coated or Impregnated Fibrous Glass (See under Coated Cloths)	n	11				(1) (1) (1) (1) (1)				160 160 165 170 175	16		5% 5% 5% 5% 5%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
Type I Clast 1 Size 16x16 Size 18x14 Size 18x18 Size 20x20 Size 22x22 Class 2 Sizo 16x16 Size 18x14 Size 18x14 Size 18x18 Size 20x20 Size 22x22 Type II		Color - shall be natural (light straw color), alu- minum, bronze, or green No. 14036 of Fed. Std. No. 595 as specified. Colorfastness - "fair" (4.4.11).	Minimum elengation of filament 20%. Resistance to water immersion: average change in length shall be 2% max. (4.4.6). Finished screening shall have a woven or mock selvage of at least 6 ends in each edge. Screen shall show no blocking in excess of Scale No. 1 (5872-4.4.9). Tension required for complet slippage of the filament shall not be less than 5 lb. (5100-4.4.13). Screening shall not burn for more than 10 sec. after removal of a match flame (4.4.15). When specified, screening shall have an incorporated fungicide. Screening shall show no evidence of fungus growth when tested (4.4.16).	

-	MENCLATURE Fiber		YARN			W. A.S.	Weight	Weave	Yorns	Breaking	Tegrina	Air	Shrink-	Point
- HAMERICAN UNE			Pty	Yorns		inch	02/	Weste	Per In.	Strength	Strength	Permea-	oge '	Value
	Matting Point	Type		Denier	Filo- ment		Sq Yd		Min. (5050)	(5100)	(5134)	(5450)	Max. (5556)	Max.
Set, Laundry, (Rylon 13-8-1500, And. F (See also under Enitted Cloths)	2		WF	WF	WF		Min Ma	·	WF	₩F	WF		w F	

Type I - With grounds Type II - Without grounds Size 1- 10x15 in. Size 2- 12x22 in. Size 3- 18x30 in. Size 4- 24x36 in.

Hylon

16 18 16 18 16 18 16 13

3.0 3.6 1 leno 46- 26-3.0 3.6 1 leeve 48 28 3.0 3.6 "

Cloth, Acetgte-Rayon, Tow Terget, Rip-Btop Tvill Meave MII-C-333C

Bright acetate mdium high tenacity viscose rayon yarns.

(1) - 5.3 2 twill 148 55 65 50 5 ends weaving

5 5 (1.5 at pressure drop of 1/2 in. across the cloth)

NOMENGLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
JJ-N-180d Type I Type II Size 1 Size 2 Size 3 Size 4	Nylon fabric shall be scoured and heat set.	Color - Shall be white (natural).	Selvage to be used at the bottom of the net for sizes 3 & 4 bags shall be reeded alternately 4 ends & 2 ends per dent to a minimum width of 3/4 in. Selvage for the top pin edge of all sizes shall be reeded 2 ends per dent, skip 1 dent, 2 ends per dent for 2-2\frac{1}{2} in., then alternate 4 ends & 2 ends per dent to a minimum width of 3/4 in. Meshes per inch 598-675. Bursting strength 175 lb. min. (5120). Gromms shall conform to Type I, Class 1. Size 4 of MIL-G-16	: sts

MIL-C-333C

Scoured. Cloth shall contain no sizing, lubrication, or weighting materials. Smooth, glazed surface. (5630-5632-5651-5660). Cloth shall not contain chloroform-soluble material in excess of 2% of dry weight. (2611).

ph: 6.0 - 8.0 (2811).

(a)The rip-stop weare "all Intended Use - In the manufacture repeat on 31 ends o: of aerial tow targets. bright acetate & 3 ends of bright acetate & 2 picks of bright acetate & 2 picks of medium high-tenacity viscose rayon. Missing rip-stop picks in the filling shall be marked in the greige state (4). Elongation: Warp - 12% max; Filling - 20% max. (5104).

		YARN			145.44		Wagne	V	- disc	Teories	Ale		-	Point
Fi	ber	Plv	Yo	ras	Inch	Oz/	1	Per in.	Strength	Strength	Permee-	296	age V	
Melting	Type		Denier	Fila-	1	Sq Ye		Mic.	Lb. Min.	Lb	bility	1	X.	Max.
Point				ment			l	(5050)	(5100)	(5134)	(5450)	(55	56)	
		WF	WF	WF		Min M	X .	WF	WF	WF		W	P	
,	J			1										
	Darron			V-3+4	(5)	27 -	2	121 67	(dry)	(wet)		(5	550)	05.00
	-			file-	min.	-	ī							25.00
	"			ment	•	4.2 -		142 71	115 55	46 22		6%	3%	25.00
				**		ì. e		180 67	150 55	60 00		cu		22 22
						4.5 -	satin (4)	זאט פען	150 55	50 22		0%	3%	25.00
	Melting		Fiber Ply Melting Type W F	Fiber Pty You Denier Point W F W F	Fiber Ply Yares Matting Type Denier Fitament W F W F W F Rayon Malti- filament	Fiber Ply Yarns Width Inch Malting Type Point W F W F W F Rayon Malti- 111a- 11a-	Fiber Ply Yorks Width Inch Oz/Sq Yd Malting Type Denier Filament Wiff Wight Oz/Sq Yd W F W F W F W F Min Ma Rayon Malti- 41 3.7 - filamin. ment " 4.2 -	Fiber Pty Yaras Width Inch Oz/ Sq Yd Point Type Denier Filament Wiff Min Max Rayon Malti- 41 3.7 - 2 111a- min. ment " 4.2 - right tvill " " 4.5 - 5-harness	Fiber	Fiber Ply Yarns Width O2/Sq Ye Per In. Min. Min	Fiber Ply Yarns Width Inch Oz/ Sq Yd Per In. Strength Lb. Min. Lb Min. Malting Per In. Min. Min. Lb Min. Lb Min. Lb Min. Lb Min. Lb Min. Lb Min. Min	Fiber Pty Yarns Width New Per in Strength Cs Strength Cb C5 C5 C5 C5 C5 C5 C5	Fiber Ply Yares Width Oz/Sq Ye Per In. Strength Strength Ch. Min. Ch. Min.	Fiber Pty Yarns Width Neight Oz/ Sq Yd Per In. Strength Strength Chin. C

(See also under Mixed Fiber Cloths)

Type I - 100% nylon filement Class A - Lt. vgt. Class B - Hvy. vgt.

Bright 1 2 70 70 Contin- (1) 2.7 - high 1 1 200 or uous $\frac{1}{2}$ 3.6 - tenacity 210 Plain 106 76 125 155 " 62 50 225 152

Type II - 75% mylon (staple) and 25% wool (See under Mixed Fiber Cloths)

NOMENCLATURE	FiNISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES		
			(Such as thickness, etc.)	(Not Specification Requirements)		
MIL-C-368F Class 1 Class 2 Class 3	Natural finish. Use of resins, oils, starches, or gums in the finishing of the cloth is prohibited	Color (1) - standard sample evailable (3-6). When an additive is required to fix the dyestuffs to the fibers, formaldehyde shall not be the principle fixing agent, and the additive material used shall not create an odor or cause degredation of the cloth during storage. Colorfastness - standard sample available (5680-5622-5651).		Intended Use - In the manufacture of clothing items, as lining cloth.		
CCC-C-4761 Type I Class A Class B Type II	Commercial-type antistatic finish.	Color (1) - standard sample available. Colors for the Flag of the United States shall be in accordance with Spec.	side, \(\frac{1}{4} \) in. \(\pm \) 1/8 in.	Intended Use - In the manufac- ture of various types of flags		

United States shall be in accordance with Spec. TT-C-591 and DD-F-416 (3). Colors other than for the Flag of the United States shall match the arplicable color card of sample (3). Colorfastness - standard sample available (5632-5630-5651-5660).

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63.

MONEY MINE			YAF	RN			100 414	100-1-0-0	******	V	-	Tonsina	Ala	Chalak	Doins
HOMENGLATURE	F	ber	PI	,	Yo	rns	inch	Weight Oz/	Meche	Yorns Per In.	Breaking Strength		Air Permea-	Shrink age	Volue
	Metting Point	Туре			Denier	Filg- ment		Sq Yd		Min. (5050)	Lb. Min. (5100)	(5134)	bility (5450)	Max. (5556)	Max.
Cloth, Preseing, Rr	lon		W	F	WF	WF		Min Ma	K	WF	WF	WF		WF	
Type I - Spun yern V & F	250° 26°C	(a) staple or	2	2			(5) 54 min.	7.0	Plain	38 36	210 220			3% 29	35.00
Type II - Fila- ment W and spun yarn F	•	multi- file- ment mylon (1)	•	2	or :	bright multi- fila ment	"	5.6	2 right 1 twill	66 54	280 240			3\$ 29	35.∞
Type XII - Spun yern V & file- west yern F	•	(1)	2		260 or - 210	brigh multi fila- ment	-	5.6	**	5 4 60	240 28 0			3% 29	35.00
Type IV - File- ment years W & F	*		•	-	210 or	bright multi- filamen	"	3.6	Plain	60 42	250 180			3% 29	30.00

Cloth, Perschute,
Synthetic-Fiber (For
Assumition Parachutes)
VIII-0-4089

Typ D - Hylon (0.86 oz.)	472°F	nylon- poly-	30	30 3≸	Multi- file-	(<u>1</u>)	-	0.88	Plain	93	± 3	40	40	(51) 3		300-500
Type /: - Nylon (2.20 us.)	472°F	emide (a)	70 ±	70	ment	n	-	2.20	"	104	91	65	65	4	3	60-100

NOMENULATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
CCC-C-482a "ype I Type II Type III Type IV	Cloth shall be heat thested at not less than 380°F, heat treated cloth shall be given an additional resin or other type of finish to increase the heat resistant preperties. Warp and filling yarns of the finished cloth shall not slip or distort (5410). Finished cloth shall not lose more than 50% initial breaking strength after aging (5850-5100). Finished cloth shall not a there to heated hand iron which his not been treated with any intistick agent such as wax (4.1°2), pdf: 4.5 - 8.0°2311).	Color - Shell be the shade imparted by the finish, provided the individual pieces are uniform in shade. Colorfastness - standard sample available (4.1.1).	(a)Nylon shall be a poly- amide prepared from hexa- methylene diamine and adipic acid or its deri- vatives.	Intended Use - As covers for flat oed laundry presses.
MIL-C-498B Type D Type E	(8) Scoured to remove sizing and other contaminants. Cloth shall we neat		(a) Holyamide shall be prepared from hexamethylene diamine and adipic	Intended "se - In the manufa ture of ammunition and flare parachutes.

ene diamine ani adipic acid or its derivatives. Slongation: 20% min. in varp and filling (5100). (Tyre D only).

1101451101 471105			YARN					Mr: AA							A		Dob.
NOMENCLATURE	Fi	ber	Ply		Yo	rns		Widtl Inch	Oz.	/	Weave		Breaking Strength	Strength		Shrink- ogs	Poini Value
	Melting	Туре		De	nier	Fil	0-		Sq	76		Min.	Lb. Min.	Lb	bility	Max.	Max.
	Point					me	nt					(5050)	(5100)	(5134)	(5450)	(5556)	
Cloth, Oxford, Nylon 3-Ounce MIL-C-508E, Amd. 1			WF	W	F	w	F		Min	Max		WF	WF	WF		¥ F	
Type I - For clothing, equipage & personnel armor Class I - For outerwear use	•	bright,		70	100	32 - 34		(1)	2.9	-	Oxford (Plain	180 76	220 135				30.00
Class 2 - For use as inner lini	ng .	tenacity filament nylon		7 0	130	,,	•	(1)	2.9	-	veave, 2 warp ends	180 76	220 135				30.00
Type II - For coating		"		70	100		n	(1)	2.9	-	weaving as 1)	18 0 76	220 135				30.00
Cloth, Synthetic, Curtain CCC-C-525a	of acry Yarn dy Fill ya	lonitrile ed. rn 1.2 m	cut stap and vim in cut sta ide. Pign	yl cl aple	hlori , pol	de.		56 ±14	11.5	13.5	(4)	50 24 +1 +1	175 55 (2)				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Not Specification Requirements)
MIL-C-508F Tyle I Class 1 Class 2 Type II	(8) Type I - cloth shall be scoured, heat treated with dry neat and/ or boiling water, and lightly calendered. Type II - cloth shall be heat treated but not calendered. Shall contain no more than 0.0030% copper nor more than 0.0015% mangamese (4.4.2). Finished cloth shall show no distoitor, puckering or change in color, and not more than 2% dimensional change(4.4.1). pH: 5.0 - 8.5 (2511).	Color (1) - standard sample available (3). For Navy procurements only, Type I cloth shall be dyed to match Olive Prab, Army Shade 7 and shall be o'tained by the use of normetallized acid, or disperse dyes; chrome and premetallized dyes are prohibited. Colorfastness - standard sample available. Type I - (5622-5614-560-5651-5660). Type II - (5622-5614-560-5651).		Intended Use - Type I, for equipage and personnel armor. Type II, for coating.
CCC-C-525a	Fire resistance: length of flame 3.0 sec. max.; length of char 4.5 in. max. (5902). There shall be no change in fire resistance after laundering or dry cleaning. Hand, drawe, and stiffness of sample shill not change after testing (4.4.4).	Colorfastness - no change		Intended Use - For the fabrication of fire-resistant eurtains.

NOMENCLATURE			YAI	RN.			148 444	1445	Weave		Bractice	Tamina	Air	Shrink-	Point
HOMENCLATORE	Fi	ber	Pi	,	Ya	'Na	Inch	Weight Oz/	W-04-	Per in.	Breaking Strength	Strength	Permea-	age.	Value
	Melting Point	Туре			Denier	Fila- ment		Sq Yd		(5050)	(5100)	(5134)	(5450)	Max. (5556)	Max.
Cloth, Tvill, Hylon, 1,6 and 3,0 Ourse NIL-C-)777, Amd. 1			w	F	WF	WF	L	Min M	II.	WF	WF	WF		W F	
Type I- 1,6 os.		bright filemen	t		70 70 ±4 ±4	multi- fila- ment	(1) 1 in. telv.	1.6 1	8 2 right 1 tvil	80 80 1	90 90	4 4			30.00
Type II- 3.0 oz.		10101			70 100 t ¹ ±5	"	.011.	3.0 3	3 2 right 2 tvil	165 96 1	180 170	6 6			35.00
Cloth, Barmer, Rayon		cupram- monium	2	2		Multi- fils- ment		5.0 -	2 right 2 twil		125 50				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Month Specification Requirements)
MIL-C-577F Type I Tyre II	Scoured, but not calendered. (8). Cloth shall be heat trusted. After treatment, cloth could show no appreciable distortion, puckering, or fading; dimensional change shall not exceed 2% in either warp or filling (4.5.1).	Color (1) - standard avuilable (3). Colorfastness - standard sample available (5620-5614-5660-5651-5680).		Intended Use - Type I, as base fabric for coated fabrics. Type II, in cold weather items
MIL=C=KOÓD	Cloth shall have a hard and drape equal to the scaniari sample. Use of readn finisher the impart stiffness to the cloth is prohibited, waness otherwise specifically approved and a therized by the scattacting officer.	folor (1) = staniari cample available (s). farms shall be type prior to wearing, maing cuts, maithuls, or cell- culon reactive type as appropriate. The simple of the active is permitted if the bream in lieu of the active is permitted if the bream in li- large if the shade an te active is. There must be a lease of profration of the year such that the simple of active is and of li- large in the state in the state of the state authorized a state authorized		Intended Use - In the manufacture of various types of flags.

1101451101 471105			YARN					M4: 404	,		141						an alas	Calat
NOMENCLATURE	F	iber	Ply		Y	orns		Width Inch	02/	'	Weave	Per				th Permee-	Strink-	Point Value
	Melting Point	Туре			Denier	Fil	-		Sq Y	rd		(50	in. (50)	(5100)	(513		Max. (5556)	Mex.
Cloth, Netting, Nylo MIL-C-3395E (See under Knitted Cloths)	_		WF	,	WF	w	F		Min	Max		W	F	WF	WF		W P (5552)	
Type I - Woven		bright or semi- dull nylon		7	O 70	Mul fil men	8-	(1)	1.6	2.0	3 picks plain 1 pick leno (4)	54- 56	54- 56	50 5 0			21 24	30.00
Type II - Warp knitted (See under Knitted Cloths)		•																
Cloth, Duck, Nylon MIL-C-3953C								<i>(-</i>)										
Class 1 - Untreate	a 250°C	High tenacity bright	5 5		10 210 5% ±5		34	(5) 36 min.	20. ±]		3/4basket (3 ends weaving	62	60)	1100 1100	135	135		35.00
Class 2 - Melamina resin treated	25 0°€	poly- emide	5 5		n "	34	34	n			as 1, 4 picks/ shed)	62	60 :	100 1100	135	135		35.30

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Mot Specification Requirements)
MIL-C-3395E Type I Type II	Permanent resin finish. Character of the finished cloth chall be equal to that of the standard sample. Cloth stall be heat set and framed to appropriate dimensions, to assure the proper number of meshes/inch & the size of the meshes.	dyed Olive Green, Shade No. 106 (. The use of pigmented resin emulsion	in. max. in warp & filling. Mesh size, after 3 launder- ings & slippage test: 0.100 in. max. ig warp & filling.	Intended Use - In tentage and equipage items.
MCT=C=R950C Class	Class 2 - Cloth shall be impreg- nated with a suitable type of inclaming resin, and the finished cloth shall have a stiffness of O ₄ 15-0 ₄ 15 in. It. in the warp and O ₄ 15-0 ₅ 25 in. It. in the filling. pdr 5.5 - 8.5 (2811).	Color (1) - standard sample available (3). Colorfastness - staniaricamile available (5/11-5/10).	from hexamethylane digmine	Intended Use - In the manufac- ture of parachite equipment.

NOMENCLATURE			YARN			145.44	141.74	Wague	Yorns	Breaking	Tagging	Air	Shrink-	Point
NUMERICATURE	FI	bor	Pty	Yo	rRS	inch	Weight Oz/			Strength	Strength	Permea-		Value
1	Meltinc Point	Type		Denier	Filo- ment		Sq Ye		Min. (5050)	(5100)	(5134)	(5450)	Max. (5556)	Max.
Cloth, Nylon and Navon, Spun NIL-C-4072A (USAF)			WF	WF	WF	(9) 45	Min M	OK.	WF	W F (5104)	W F (5136)		W F (5552)	-
Type I- 4.5 cm.	Warp Yar	pe I and III: pp Yarn: Hylon, continuous, tright, denier, 34 filament (Type 100 nylon ling yarn: Rayon, high temacity, 1					4.3 - 5.6 -	Oxford (2 warp ends	200 72 220 57	150 70 160 125	55 7 65 16	10 8	Preshruni 2% 2% 2% 2%	•
			direct sp					vegving as 1)						

Cloth; Plastic, Mesh MIL-C-414IA (USAF)

Type I- 12x12 mesh Vinylidene Type II- 20x20 mesh Chloride

(5104) 13.0 Plain 12 12 95 90 Contin- (1) -1 up 7.0 1 down 20 20 uous extruded(1) monorilament

(Such as thickness, etc.) (Not Specification Requirements)	NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			COLONIASTIN 33	(Such as thickness, etc.)	(Not Specification Requirements)

Type I Type II

Scoured, singed, dyed & given a Color(1) - to be obtain water repellent treatment (10). Use of dwestuffs, detergents, or other chemical3 which would cause deter-dyes (3). ioration in storage or cause derma-titis on prolonged skin contact is prohibited. Finished cloth shall exhibit no mark-off characteristics. exhibit no mark-off characteristics. Durable water repellent treatment. Use of non-durable-type water repellents such as wax or aluminum or zirconium scaps is problifited. Spray ratings: Initial-90, after 3 launderings-70, after 3 dry cleanings-70 (5526). Hydrostatic pressure:
After 3 launderings-30, after 3 drycleanings-35 (5514).

selected direct or vat dyes (3). Colorfastness - standard sample available (5614-5620-5651-5660-5682).

Intended Use - In the monufac ture of rainwear.

MIL-U-4141A Type I Type II

Color - Olive Drab to ronform with Shade No. 0.005 in. Type II- 0.025 in manufacture of Radar tow targets.

3412 of Spec. TT-C-595. 0.005 in.(5030). Elongation: Type II- 20% min. in W & F;
Type II- 20% min. in W & F;
Type III- 20% min. in W & F (5104). Well made splices showing to talk shall be resulted to the manufacture of Radar tow targets. permitted at any point of any individual filament; eny individual filement; provided the number i rillies loss not exceed of in any length of 1 lineth lelvage; Type I= 7/4 ine il/31 ine, with 24 ends received a ends per lent; Type II- 4 ends per dent.

60.

NOMENCLATURE			YARN			Width	Weig		Weave	You		Breaking	Tanina	Air	Shrink-	Foint
HOMENCLATURE	Fi	ber	Ply	Yo	ras	Inch	Oz	/	W0010	Per	M.	Strength	Strength	Permee-	oge	Velue
	Melting	Туре		Denier	Filo-		S q	76		M	R.	Lb. Min.	Lb	bility	Mex.	Max.
	Point				ment					(50	50)	(5100)	(5134)	(5450)	(5556)	
Cloth, Polyethylene, Leno MIL-C-4222B (A50) And. 2 Type I		Poly-	w F	W F	(a)	(7) 36	Min	Max 7.5		W 12		(5104) 35 35	WF		W P	
Type II	•	ethylere			Contin- uous extru- ded mono- filamen	72	-	11.0		12 (24 es		35 35)				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MIL-C-1222B Type 1 Type II	Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage is prohibited.	Color - Cloth shall be made from natural, undyed or unpigmented monofilaments unless otherwise specified by the procuring activity.	aluminum foil stripping	•

HOMENCLATURE			YARN				Weight	Weeve	Yerno	Breaking	Travina	Air	Stylek-	Point
MUMERUCAI ONE	FI	ber	Phy	14	1946	Inch	02/		Per M.	Strongth	Strength	Permee-	oge	Value
	idelika Polisi	Туре	•	Deder	Filo- ment		3 q W		160. (5050)	(5100)	(5134)	(5450)	Mex. (5556)	Mex.
Hoth. Brathetic Her, Duck MIL-C-ARRAS (UMAY)		Copolyss of vizyl chlorida k scry-		WF	WF	(1)	Min Mic. 20.0 -	Plain 1 up 1 down	W F 28 16	WF (5104) 240 100	WF		W P	

Closs, Man. 3411

Type I= 3,3 cs. (nominal weight) Class A = Finished enteral Class B = Water resistant treatment	-	Bright nylon	•	40- 41	7	3.30 3.35	- 2			120 120 115 115			15 max. 2%	
Type II- 5.4 os. (Nominal weight) Class A- Finished														
	_				-	5.40		250	72	170 160	10	10	18 mx. 2%	12%
Class B- Water resistant treatment Class C- Finished	-			•	•	5.50		250	72	160 155	10	10	18 max. 2%	127
natural - heavily	-			*	-	5.40		250	78	150 160	7	7	10 max. 25	12%
registant treatment heavily calendered	-			**	-	5.50		250	78	140 150	9	9	10 max. 2%	12%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Biot Specification Requirements)
MI-C-##5#B	(8) pH: 5.0 - 9.0 (2811).	Color - shall be natural undyed unless otherwise specified.	Thickness: 0.039 in. min. (5030). Stiffness: 0.300-0.750 lb. in the warp; 0.300-0.500 lb. in the filling (\$\times02\$).	Intended Use - As a visor stiffening meterial and for us in the protector pads of Anti- "O" Suits and high altitude pressure garments.
NDI-C-4294 Type I Class A Class B Type II Class A Class B Class B Class C Class D	All types and classes - smooth & free from winkles. Type I, Class B and Type YI, Classes B and D: shall be given a durable water resistant treatment. Spray vating: Initial- 100; After 3 launderings or dry cleanings-70 (5526). Type II, Class C and D: shall be heavily calendered All types and classes - finish shall be a "permanent finish".	Color - Unless otherwise specified, cloth shall match standard shade Sage Green, No. 511 (3). Colorfastness - "good" (5620-5682-5670-5614).	(a)At the contractor's option, the weave of Type II cloth may be a 3-up, 1-down right hand twill. Ultimate elongation: all types and classes, both warp and filling - 20% min. (5100).	Intended Use - In the manufac- ture of flying clothing, as liner and exterior materials, and for cover of casualty bags

			YARN				wa		T			T		
NOMENCLATURE	F	ber	Pty	Yo	r (R.S)	Inch		Weste		Strength	Touring Strongth	Air Permes-	Shrink-	Peint Value
	Malting Point	Туре		Denier	File- ment		\$q Yé		Mia (5050)	(5100)	(5134)	(5450)	Mex. (5556)	Mor.
Cloth, Parachuts, Mylon MIL-C-7020E			WF	WF	WF		Min Mar	t	WF	₩F	WF		иг	
Type I= 1.1 oz. rip-stop weave	250° ±6°C	(a) Polywanida				36.5 ±0.5	- 1.1	(4)	120 120	(510k) 42 4 2	5 5	100+20	3); 3 <u>)</u>	
Type II- 1.6 oz, twill weave	**					**	- 1.6	2 Itvill	120 76	50 50	5 5	130±30	2\$ 2\$	
Type III- 1.6 oz.		**				**	- 1.6	(4)	120 76	50 50	4 4	130+30	25 25	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Not Specification Requirements)
MITC-7020E Type I Type II Type III Type III	(8) Type I- cloth shall be given a preliminary scour sufficient to remove sizing & other contamination at a temperature that will not cluse fixation of same into cloth or result in permanent setting of the cloth. Cloth shall be dried & calendered at sufficient temperature & pressure to control air permability. Pre-scour may be omitted & clean greige goods be subjected directly to calendering. Further wet processing of the cloth may be accomplished at a temperature in excess of 200°F in order to stabilize air permeability. Length of time required for complete setting of the cloth at this temperature shall be sufficient to shrink & set the cloth. Types II & III above process optional. None of the types shall be bleached in any manner or process. Finish shall be permanent and stable. Finished cloth shall contain a silicone oil, evenly distributed. pH: 5.0 - 9.0 (2811).		high tenacity, light & heat resistant polyamide pre-	

********			YM	RN			Width.			Manua	I		- dia	720	سما	Air			Point
HOMENCLATURE	F	ber	P		You	rme	inch	0		*****		rns r In.	Breaking Strongth	Stre	agth	Permee-	Shri oge		Value
	Matting	Туро	- 7		Denter	File-		34	W		"	ia.	Lb. Nin.	1	.0	bility	Ma	K.	Moz.
	Pobs					meri					(50)5O)	(5100)	(5)	34)	(5450)	(555	(8)	
Tota, Deck, Brica.		į	w	F	WF	WF		Via	Max		W	F	WF	W	F		V	7	
HIT-0-12-190		(a)	(b))		(b)						_	(52.04)						
Type 1- 9.5 es.	± 6°C	Bright high temetty	S			Multi- file- ment	(1)	•	9.50	Plain 1 up 1 down	ಹಿ	38	400 300	35	45	5.0	244	25	
Type II- 8.75 oz.		mylon (e)		2		**	(1)	•	8.75	*	78	38	40C 150	35	20	5.0	214	25	
Type III- 7.25 cc.	ing .	(a) Bright Ligh tenacity nylon	2			Warp: filament Filling: staple		•	7.25	•	60	45	325 275	20	20	8.0	25	25	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Plot Specification Requirements)
III-C-7219C Type I Type III Type III	Cloth shall not be bleached in any manner or process. Cloth shall be given a durable water resistant treatment. Spray rating: Initial-Type I-80, 80, 80; Type II-80, 80,70; Type III-90, 90, 80. After 3 dry cleanings: Type I-70; Type III-70, 70, 70; Type III-70, 70, 70; 5556). Rydrostatic pressure: Type I-25; Type II-30; Type III-25 (5514). Blocking: unless otherwise specified, there shall be no sticking of cloth to cloth. (;872).	Color - Types I & II shall watch TCA Cable No. 66022, Shade S-1 (U.S. Army Olive Drab) or Olive Drab No. 106 or TCA Cable No. 70072, Indian orange (crepe side) or Orange 70072, as specified. Type II- shall match Sage Green No. 1535 or Olive Green No. 106, as specified (3). Colorfastness - standard sample available (5614-5620-5651-5660).	light and heat resistant polyamide prepared from	Intended Use - In the manufacture of parachute packs & equipage other than parachute packs.

			YAN	N				eride)			101	4	Breckies	Tamina	Air	Shri		Point
NOMENCLATURE	Fi	ber	Ply		Ye	MRS		inch	0		Weave	Yorns Per in.	Strength	Strengt	Perinco-	oge		Value
	Melting Point	Туре			Denier	File			Sq	Yd		Min. (5050)	Lb. Min. (5100)	(5134)	(5450)	Mo (555	_	Mex.
Cloth, Hylon, Perschute, Cargo HII-C-7350C (ASG) Amd. 1		(a)	WF		WF	wi	F		Mir	Mo		WF	W F	WF		иТ	7	
Type I	250°C	H1gh					ij	36]	-	2.2	5 (4)	70 70	90 90	10 10	100-150	2\$	1\$	
Type II	#6°C	tenacity nylon	,				•	-2	-	3•5	io (4)	25 25	135 125	30 30	150-200	2\$	1\$	
Cloth, Nylon, Ballistic MIL-C-7812C(AER)																		
Type I- 7.5-8.5 oz Plain waave	•	Hylon	7.	Ĺ	210 40	34	13	(1)	7.8	8.5	Plain	38 30	800 -			3%	2\$	
Туре II- 17-18 ог.		e e	1 :	1 .	840 840	140 1	140	(1)	17		broken twill (3 ends weaving as 1, 3 picks in the shed)	73 68 + 2	900 800			25	2%	
Type III- 12.4-12.	8 oz.	11	5	5	210 210	34	34	(1)	12.4	12.	3 2x2	40 40	(5102) 580 625			7 2 %	7\$	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
CIL-C-7350C Type I Type II	(8) Permanent finish; air permeability shall not change more than 15% & thickness shall not increase more than 10% for Type I and 15% for Type II when tested (4.3.2.2). pH: 5.0 - 9.0 (2811).	Color - natural, unless otherwise specified. When color is specified, when color is specified, std. sample is available (3). Colored cloth shall be dyed with scatate- or acid-type dyes. Metalized or chrome-type dyes shall not be used. Colorfastness (1), except Olive Green, Shade 126, which shall be "fair" (5660) & "Good" (5651).	Ultimate elongation: 25% min. for both types, W & F (5104). Thickness: Type II-0.0060 in. max.; Type II-0.014 in. max. (5030). Load required to separate the seam ½ in. shall be not less than 10 psi in either the warp or filling direction (4.3.2.1).	
MIL-C-7812C Type I Type II Type III	(8) Type II- cloth shall be heat set at 100 ± 1°C by passing through boiling water & allowing free relaxation to occur. After heat setting, an acrylic resin, Rohm and Haas Rhoplex E-21 or equivalent, shall be applied to one side of the cloth. Resin applied shall not be less than 3% row more than 5% of the weight of the heat set cloth. Types I & III: No starch, resin or other stiffening ingredient shall be present in the finished cloth.	Color - color of the finished cloth small be natural.	Thickness: Type I- 0.028-0.032 in.; Type II- 0.035-0.039 in.; Type III- none specified. Elongation: Type I- 20-30% in both W & F; Type II- 20-40% in both W & F; Type III- 25% win. in the warp and 20% min. in the filling.	Intended Use - In the manufac- ture of flak protective vests and curtains used in aircraft, and fragmentation protective body armor worn by Martine Corps personnel.

NOMENO ATTITUDE			YARN				100-1-00	Weave	Yorns	Breaking	Tamina	Air	Sirrink-	Point
NOMENCLATURE	F	ber	Ply	70	rns	Inch	Oz/	40040	Per in.	Strength	Strength	Permee-	age.	Value
	Malting Point	Туро		Denter	Filo- mont		Sq YV		Min. (5050)	(5100)		(5450)	Max. (5554)	Max.
Milec-1976 (AME)		Bright Bylon	W F	W F 210 210	W F 34 34		- 6,2	2 right 1 twill	W F 60 45	W F 350 400	W F 25 35		W P	

max. m	(a) Hylon		1	36 <u>1</u>	- 4.75 2 twill 70 70 - 7.00 (4) 53 48	(510k) 200 200 15	15 50- 450- 24 24 90 650
Type II- 7 os. max. Type IIA- 10.5 os. max.		2	k	**			75 50- 650- 25 25
Type III- 14 os.		1	1				90 750 75 15- 250- 2\$ 2\$

Class 1- Air Permeability at ½ in.
water pressure.
Class 2- Air
Permeability at 20 in. water pressure.

NOMENCLATURE	FINISH	SHADE AND	OTHER REQUIREMENTS	NOTES
		COLORFASTNESS	(Such as thickness, etc.)	(Not Specification Requirements)

MIL-C-7978

Estural finish (greige state).

Intended Use - In the manufacture of sea anchors for patrol type mircraft.

MTI-C-8021C Type I Type II
Type IIA
Type III
Class 1 Class 2

(8) Permanence of finish to be tested specified, color shall (4,2,4,1). Cloth thickness after natural. Standard samp testing shall not be more than 10% available(3) for dyed more than the thickness before testing. The average of the air permeability readings taken after testing shall be within ±15% of the average of the readings taken before testing. Cloth shall not be bleached in any manner or process.

pH: 5.0 - 9.0.

Color - unless otherwise specified, color shall be natural. Standard sample cloths. Colorfastness - standard sample available for dyed cloths (5614-5620-5660).

(a) Nylon shall be a bright Intended Use - In the manufachigh tenscity, light & ture of cargo & deceleration heat resistant, polyamide prepared from hexamethylene diamine & adipic acid or its derivatives. Yarn shall not be bleached in shall not be bleached in any manner or process. any manner or process. Elongation: Types I, II, & III-25% min. in both W & F. Type IIA-35% man in both W & F (5104). Cloth for fabricating new parachutes shall not be more than 2 yrs. old from the date of manufacture to the date of delivery. Age of cloth for repair & maintenance of para-chutes shall be as spec_l'ied by procuring activity.

ALCANESIA ATLANE			YA	RN				Wicight	Weave	Yorns	Breaking	Yearing	Air	Shrink-	Point
NOMENCLATURE	Fiber Ply		tv	Yo	198	inch	02/		Per in.	Strength	Strongth	Permee-	oge	Value	
	Melting Point	Туре		•	Denier			Sq Yd		Min. (5050)	(5100)	(5134)	(5450)	Max. (5556)	Max.
Cloth, Mylon, Dobby MIL-C-8321 (USAF)		Bright nylon	W	F	WF	W F Contin	(1)	Min Max 3.25±.25	(Ł)	W F 175 85	WF (5104) 160 125	W F	50	¥ 7 2≸ 1⅓≸	•

Cloth, Glass, Finished, For Poly- ester Resin Leminates HII-C-9084B, Amd. 1 (ASG)								(a)			Thickness (in)	Flexural After Lam (thousend	instion s of psi)
Type I- 112	Glass	1/2	450	Contin-	(1)	1.76	2,20	Plain	39	38	0.003 - 0.005	50	Wet.
Type II- 116	yarns	1/2	450	นอนธ	(1)	2,68	3.35	*	59	57	0.004 - 0.006	45	40
Type III- 120		1/ 2	450		(1)	2.68	3.35	Crowfoo	t59	57	0.004 - 0.00€	5 0 45	45
Type IV- 128		1/3	225		(1)	5.08	6.35	Plain	41		0.007 - 0.009	45	39
Type IVA- 128-150		3/2 1/2	150		(1)	5.08		"	41	31	0.007 - 0.009	45	39
Type V- 143		3/2 1/2	225 450		(1)	7.88		Crowfoo		29	0.008 - 0.012	90	39 39 78 78
Type VA- 143-150		2/2 1/0	150 225		(1)	7.88			48	29	0.008 - 0.012	90	
Type VI- 162		?/ 5	225		(1)	10.24			27	15	0.075 - 0.019	35	30
Type VII- 164		4/ 3	225		(1)	10.92			19	17	0.014 . 0.017	35	30
Type VIIA- 164-150		4/ 2 1/ 3	150		(1)	10.92			19	17	0.014 - 0.017	35	30
Type VIII- 181		1/ 3	225		(1)			Setin	56 56	53	0.008 - 0.012	90 35 35 35 50 50	30 30 30 45 45
Type VIIIA- 181-150		1/ 2 2/ 2	150		(1)		10.00		56	53	0.008 - 0.012	50	45
Type IX- 182		2/ 2	225		333	11.20			59	55	0.012 - 0.015	50	45
Type IXA- 182-150		1/ 3 3/ 2	150			12.40			59	55	0.013 - 0.016	50 45	+5
Type X- 183		4/ 3 1/ 3 2/ 3 2/ 3 4/ 3 4/ 3	225		$\langle 1 \rangle$	14.40			59 53 41	47	0.018 - 0.022	45	40
Sype XI- 184		4/, 3	225		(1)	21.76			41	35	0.026 - 0.032	45	40
Type XIA- 184-150		4/ 2	150		(1)	21.76	21.20		41	35	0.026 - 0.032	45	40

NOMENCLATURE	FINISH	SHADE ANO COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Not Specification Requirements)
	(8) Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage or cause dermatitis on prolonged intimate skin contact is prohibited. pH: 5.0 - 9.0 (2811).	Color (1). Colorfastness - "good" (5614-5620-5660-5682).	Ultimate elongation: 25% min. in both directions (5104).	Intended Use - In the construction of flying clothing.
MIL-C-9084B Type I Type II Type III Type IVI Type IVA Type VA Type VA Type VI Type VIII Type VIIIA Type VIIIA Type IXA Type IXA Type IXA Type XI Type X Type X Type X Type X Type X Type XI Type XIA	Cloth shall be cleaned & shall then be treated with a finish which will produce the characteristics required by finished glass cloth in this specification, im luding the required performance characteristics when tested with the applicable laminating resin.	finished cloth shall be uniform and shall be	(a)See specification for weave description & diagrams.	Intended Use - In fabricating polyester resin laminates for structural parts, radio & radar antenna housings, & other applications. They are specifically intended for use in fabricating laminates conforming to Spec. MIL-P-8013 and plastic sandwich materials conforming to Spec. MIL-S-9041.

NOMENCLATURE			YARN				****	Weave	Yorns	Breaking	Therina	Air	Strink-	Point
MOMENCEAL ON E	Fiber		Ė	Y	ras	hon	Weight Oz/		Per in.	Strength	Strength	Permea-	oge	Value
	Matting	Туре		Denier	File-		8 q Y6	1	Min.	Lb. Min.	Lb	bility	Max.	Max.
	Point				ment				(5050)	(5100)	(5134)	(5450)	(5556)	
Brazi. Bestomar			WF	WF	WF		Min Mo		WF	WF	WF		WF	
MIL-8-100/90	•	•			•									

Clase 1- Ten 125 Clase 2- White 3030

Both Classes: Warp: continuous filement, 100 demier dull acetate, 25-40 filements. Filling: continuous filement, 100 demier dull rayon, 25-60 filements.

3.0 - Plain 150 70 45 25

oth Acetate,

MIL-C-107724

Seponified oriented cellulose

3% 1%

oster

(9)
60 60 80 80 36 1.8 - Plain 126 106 95 80
(double end every 20th end, double pick every 18th pick)

Cloth, Rayon MIL-C-11460 (ORD)

(a) Viscoss rayon

(1) 36 5.0 5.75 min.

70- 70-200 140

50 ± 15

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Not Specification Requirements)
MII-8-10679C Class 1 Class 2		Color - Class 1: tan 125 Class 2: White, Navy color 3030 (6). Standard camples available (3). Colorfastness - standard sample available (5651- 5614-5680-5682).		Intended Use - Scarf for use by female personnel of the Army (tan) and the Wavy (white
MIL-C-10772A	Natural finish (10).	Color - to match an approved standard shade of Olive Green 106, obtained by pigmentation of the cellulose acetate solution prior to the spinning of the yarn. The pigmentation shall consist of carbon black &		Intended Use - In the manufac- ture of various types of cold climate clothing.

MIL-C-11460

Cloth shall be uniform and have no visible imperfections.(8). Acidity or alkalinity: Mineral-none; Organic- 0.10% max. Color - natural unbleached (a) The rayon shall or bleached white.

appropriate organic color pigment (3). Colorfastness - standard sample available (5660-5651-5614-5622-5682).

contain no acetyl groups & not more than 0.2% sulfur.

Intended Use - For liners for recoilless cartridge cases.

A101451101 AT1105			YA	RN												0-1-4
NOMENCLATURE	F	iber	P	 ty		Ya	rns	Width	02/	Weave	Yorns Per in.	Breaking Strength		Air Permee-	Shrink- age	Value
1	Melting	Туре	·	•	De	nier	File-		Sq Yd		Ma.	Lb. Min.	Lb	bility	Mex.	Mex.
	Point						ment				(5050)	(5100)	(5134)	(5450)	(5556)	
Pabric, Glass, Wove			w	F	W	F	WF		Min Mo	<u> </u>	WF	WF	WF		WF	
MIL-F-12298k (MU)		(a)					1									
Type I- Lightweig	ht	Fibrous	2	2			Contin-	(1)	5.37 ±1	0% Plain	34 32 1 2	110 90				
Type II- Medium W	gt.		3	3				-:	8.90 ±1	o ≸ 8–	± 2 57 54	145 130				
Type III-Heavy wg	_	**	2	2			H	a	_	harness Of satin	5 2 48 5 2 48	270 250				
Cloth, Ballistic,	0.	(a)						1.0	-1 -	. (a	16.15	0				Undyed Natural
MIL-C-12369D (GL)	250,C ±6 C	Bright high tenacit; nylon	r		1050	1050	0 Multi- fila- ment	48-	14.0 +1.0 -0.5	2/2 basket (2 ends weaving as 1, 2 picks	46 42	900 825			31 21	22.0 Lyed 18.0

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Not Specification Requirements)
MIL-F-12298A Tyre I Tyre II Type III	The amount of finish on the cloth, as measured by the chrome level, shall be not less than 0.03% nor more than 0.06%.		(a) Glass yarns shall te woven to conform to the weave requirements, heat- cleaned, and then finished with a methacrylato chromic chloride finish.	
MII.=C-12369D	Cloth shall be scoured & heat-treated and shall be processed to meet the ballistics resistance requirements of this specification. pH: 5.0 - 8.5 (2811) (10).			Interied Use - In the manufactura of body armor, helmets, and armored clothing.

NOMENCLATURE			YARN			145.415	Weight	Weave	Yoras	Breaking	Teories	Air	Shrink-	Point
INCINE INC. LAIL ONE	FI	bor	Pty	Ye	ras	inch	02/	WOUTE	Per in.	Strength	Strength	Permea-	age	Value
	Malting	Type	31.4	Denier	File-		Sq Yd		Min.	Lb. Min.	Lb	bility	Max.	Max.
	Point	.,,,,			ment				(5050)	(5100)	(5134)	(5450)	(5556)	
Cloth, Acrylic (Por Cartridge Mags)			WF	WF	WF		Min Ma		WF	WF	WF		WP	
Mil-C-12800 (ORD) Amd. 1		(a) Acrylic	:		•	(1)	2.3 2.7	Plain, single	5 0 5 0	40 40				

Cloth, Cartrides, High Tenacity Direct Spun Viscose Mayon Mrn-C-13540 (GRD)

(a) Righ tenecity viscose rayon

(1) 2.8 3.2 Plain, 60.60- 50 50 single 65 65

Labels, Germent (Woven, Rayon) MIL-L-150402

Size A- 1-5/16x3" Size B- 3/4 x 2" Size C- 2-1/4 x 4" Size D- 2-1/4 x 5"

Regenerated singles or 50 denier, 2 ply; 144 ends rer in. min. lose (Nound filling: 75 denier (Viscose or Cupin. min. Figure filling: remnonium) 150 denier singles, 92 picks per in. min.

Taffeta and figured

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	CTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MII-c-12800	(8-10) Cloth shall pass the objectionable sizing test (4.15). Cloth shall be boiled off or scoured to remove sizing materials.		a rylonitrile polymer fibers or ropolymers of arryloni- trile containing no halogens	Intended Use - In the manufature of cartridge bags for ammunition for 75mm. & 105mm Howitzers. Not for use with propellants containing nitroguanidine.
MIL=C-13540	(2) The cloth shall pass the object- ionable sizing test (4.14). pH: 5.5 - 7.7 (2211).		(a)The warp yarms only shall be sized with relatin applied from an ajeco. B lath not to exceed 165°F, containing 3% (by weight of tath) of an undegraded gelatin and 0.25% (by weight of tath) of paranitrophenol. Clippage: warp= 135 min.; filling= 125 min. (5100). Ctretch: 8.5% max. in both warp and filling (4.8).	artillery propelling charges

MIL-L-1504CE

Cize A Size P Cize C

Size D

(1). end Colorfantness - vtaniari sample available (5622-56.0).

Call r = background & solvages shall be Shade

Plack 211 & the design & 2 ply; " double ends each
legends shall be white to selvage, Fizes C & D=
match the standard sample (3-0), Design & legend (1).

(1).

Call r = background & sol
Selvages; Sizes A & B 100

Intended Use = In irrect

On this streng which they will be proven thy . I be not the standard edge of the special contents of the supportance of the local contents of the supportance of the suppo

7".

			YA	RN			4 17 444	T								- 1-			3 -1-4	
NOMENCLATURE	Fi	her	,	lly	Yo	rAS.	Width Inch	0	ight z/	Weave	Per		Bracking Strength		gth		094		Point Value	
	Melting Point	Туре		.,	Denier	Filg- ment		Sq	Sq Yd		1 _1 _		Lb. Min. (5100)	_		(5450) (5556)			Max.	
Cloth. Parachute. 240-Permeability: For Use with Under- Water Ordrance HIL-C-17208A (BuOr Amd. 1			W	F	WF	WF		Mir	Max		W	E	WF	WF	•	•	W	r		
Type I- Nylon Class A- 4.0 oz. Class B- 8.0 oz. Class C- 10.0 oz	,	High tenaci: nylon	ty			Multi- file- ment	40- 41	-	4.0 8.0 10.0	1	64 64 80	64 64 80	(5104) 200 200 400 400 480 480	25 50 60	25 50 60	240 240	2% 2%	15 15 15		
Type II- Saponifi Acetate Class A- 4.0 oz. Class B- 8.0 oz. Class C- 10.0 oz		Saponi: oriente cellule acetate	ed ose			Contin- uous multi- filamen	41	-	4.0 8.0 10.0)	14 54	- 44 54	175 175 330 330 400 400	25 50 60	25 50 60	240 ±30	2% 2% 2%	1% 1% 1%		
Cloth, Saran, Utili Bag MIL-C-18449A (NAV		10 mil pigment polyvi idene chlori	nyl-			Mono- fila- ment	5¼ +1½ -½	11.5	; 13 . 0	(a) 4/4 double end skip twill (4)	•	48	(b) 155 140							

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Not Specification Requirements)
MIL-C-1720SA Type I Class A Class B Class C Type II Class A Class C	Smooth and even, containing no sizing lubricating, or weighting materia.s. Thickness shall not increase more than 10% after testing (4.4.1). pH: 4.5 - 8.5 (2810).	Color - when color is not specified in procurement document, no coloring matter of any sort shall be added to cloth or yarn. Camouflaging (1) - std. samples or instructions. Colorfastness (5632).	I- 25% min. in both dir-	
MTL-C-18449A	Flame resistant treated - Ave. length of flame- 3 sec. max. Ave. length of char- 4.5 in. max. (5903T).	Color - Green 3428 - std. sample available (3). Colorfastness - standard sample available (5651-5660). (a)Warp: 4 ends of green & 4 ends of white with double ends of each color veaving as one, Filling: all matural color.	(b)Breaking strength after heat aging = 145 lb. min.	

MONEYUCI ATTION	NOMENCLATURE		YARN			CARLADA	Wright West		Yorns	Breaking	Teorina	Air	Shri	- de	Point
HOMENCEAL ONE	FI	ber	Pty	Yes	res	inch	02/	02/		Strength	Strength	Permed-	000		Value
	Metting Point	Туре		Denier	Fils- ment		Sq Yd		Min. (5050)	(5100)	(5134)	blity (5450)	(555		Max.
Cloth, Will, Wrice (Low Count, 3.5-			WF	120	WF		Min Max		WF	WF	WF		W	F	
02000) HIL-C-192568 (SA)	min.	Bright luster mylon		510 51.	,0 30 1sin.	(1)	3.4 3.6 3-harm 2 ri 1 tw	ght	56 56	225 210			2%	2%	50.00

Type I- Hylon Class A- 5.0 oz. Class B- 8.0 oz. Class C- 10.0 oz.	High tenscity nylon	Multi- 40 5.0 file- 48 8.0 ment 10.0	• • •	350 130 45 560 210 70 625 425 75	20 30 60	60±15 2% 1% 60±15 2% 1% 80±20 2% 1%
Type II- Seponified Acetate Class A- 5.0 or. Class B- 8.0 or. Class C- 10.0 or.	Seponified oriented cellulose scetate	Contin= 40= 5.0 uous 48 8.0 multi= 10.0	• •	250 160 35 400 260 55 500 330 70	25 44 55	60±15 2% 1% 60±15 2% 1% 80±20 2% 1%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Not Specification Requirements)
MI:_C-19256B	(8) Natural finish; not calendered. 0.003% copper m.x.; 0.0015% man anese mxx. Cloth shall be fully heat set at 400°F. Cloth shall show no appreciable distortion or puckering, and not more than 2% dimensional change. pR: 6.0 = 10.0 (2811).	Color - cloth shall be Green 3410 - std. sample available (3). Colorfastness - standard sample available (5614- 5622-5651-5680-5660).	Selvage: each selvage shall m	Intended Use - As a base material for synthetic rubber coating.
MIL-C=19262 Type I Class A Class B Class C Type II Class A Class B Class C	Smooth and even, containing no sizing, lubricating, or weighting materials. pH: 4.5 = 8.5 (2810). Increase in thickness = 10% max. (4.4.1).	Color - when no color is specified in procurement document, no coloring matter of any sort shall be adiel to cloth or yarn. Camouflaving (1)-samples or instructions (1). Colorfastness - "good" (5632).	(11) All dupe-selvage edges of the cloth shall be constraint by 1 pair (min.) of leno locked ends (4), each leno end to be of the same denier as the body of the cloth. Selvage width: Classes A & B: 1	(=

30.

NOMENCLATURE	ATURE		YARN			144	Weight	Weave	Yorns	Breaking	Teering	Air	Shrink-	Point
NOMENCEAL ONE	Fi	ber	Ply	Ye	A6	Inch	02/	Weste	Per In.	Strength	Strongth	Permee-	000	Value
	Melting	Тура		Dealer	File-		Sq YM		Min.	Lb. Min.	Lb	bility	Max.	Max.
	Point				ment				(5050)	(5100)	(5134)	(5450)	(5554)	
Cloth, Nylon, Twill Inflatable Life Preserver			WF	WF	WF		Min Mox		WF	WF	WF		W	
Amd. 1	Y)	Bright high tenacit mylon		70 10 0		(1) selvage in.max		2 right twill	165 96 1	(5100) 180 170 (5104) 160 140 withod (1)	10 10		25 25	,

Cloth, Glass, Woven Roving, For Plast'c Leminate MIL-C-19663B (MAVY) Styla 605-308 (ECC C-135-60-5-30-8) Styla 605-406 (ECC C-135-60-5-40-6)	Glass	Contin- uous	(1) n	24 carinel (7)	Plain	(7) 300 240 300 240			1ength 38,000	Strength inate cross 30,000
3tyle 605-604						300 240	60,000	50,000	38,000	30,000
(BCC 0-135-60-5-60-4) Style 345-178 (BCC K-75-34 5-17-8)						170 136	60,000	50,000	38,000	30,000

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Packness, etc.)	NOTES Plot Specification Requirements)
l	(8) Ngtural finish: may be calendered. Copper content: 0.005% max. Man- gamese Content: 0.001% max. Cloth shall contain no skin irritants. Heat set (1). pH: 6.0 = 8.0 (2810 or 2811).	Colorfastness - "good"	(11) During preparation of the warp, care should be taken not to sirede the yarn. Smooth syelets & burnished heddles should be used. Breaking strength after 96 hours accolerated aging at 70 ±1 C. 145 in the warp; 130 in the fill (5104), 160 in the warp; 155 in the fill (5100).	

NTL-C-19663B Style 605-308 Style 605-406 Style 605-604 Style 345-178

Finished cloth shall be free of Celor - characteristic oil spets, grease spots, and other of clean natural finished contamination, creases, wrinkles, and other forms of permanent distortion, and shall not be brittle or fused. Cloth shall have drapability characteristics suitable for the use intended and sufficient flexibility to withstand normal handling. Period of time for the resin wet-out shall be 15 min. max.

Nominal average thickness for all styles: 0.045 in. Wet flaxural strength after conditioning (4..., 3.1.2.2 or 4.4.3.).2.23) shall not be less than 80% of the dry flaural strength test value.

NOMESTON ATTURE			YARN	LAN			144-1-AA	Weave	Yorne	- Alban	Tearing	Air	Shrink-	Point
NOMENCLATURE	F	ber	Pży	Yorne		Width Weight Inch Oz/			Per In.	Strength	Strongth	Permee-	cge	Value
	Nisting	Type	,	Denier	File-		Sq Yd		Min.	Lb. Min.	Lb	bility	Max.	Max.
	Point				ment				(5050)	(5100)	(5134)	(5450)	(5556)	Ì
Cloth, Glass; Tape,			WF	WIF	WF		Min Mo		WF	WF	WF		W Z	
Dextile, Glass; and Dured, Glass MIJ-C-2007GC, And		i												

MIL-C-20079C, Am (Sec also under Marrow Fabrics)

Type I- Cloth Class 1- Setin weave, lightweight

Fibrous glass

Contin- (1) 9.43 8-harmess 56 54 200 180 uous (untreated) satin ±2 ±2 (initial) 60 60 (treated) (after heating

to 900%.)

Class 2- Setin weave, heavyweight

Fibrous

Contin- (1) 13.25 4-harness 48 32 300 225 uous (untreated)(crowfoot)22 22 (initial) 14.76 satin 70 70 (after heat)

70 70 (after heating to 900°F.)

Type II- Tape (See under Marrow Fabrics)

Cloth, Cartridge, Rayon

Viscose Rayon (no scetyl groups)

275 275 120 12: (1) - 12.5 Plain or any other suit-able other

Maximum Stretch 12.5% 12.5% 300 300

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
		COLORFASTNESS	(Such as thickness, etc.)	(Not Specification Requirements)

MIL-C-20079C Type I Class 1 Class 2

Cloth shall be treated with suitable synthetic resin.

Intended Use - As a lagging material or jacket over thermal insulation.

MIL-C-20300

Type II

(8-10)

When loads equal to 35% of the breaking strength in one direction & 50% in the other direction are applied to the seams as directed (F-4d), the slippage of the yarn shall not exceed 0.25 in.

			YARN								Tomico.	415		Sul-A
NOMENCLATURE	Fi	ber	Pty	Yo	rrs	Width	02/	Weave	Per in.		Strength	Air Permee-	Shrink- oge	Point Value
	Metting Point	Туре	,	Denier	Filo- ment		Sq Ye		Min. (5050)	Lb. Min. (5100)	(5134)	(5450)	Mex. (5556)	Max.
Cloth, Rylon Raft Botton HII-C-211034 (MEP)	l		WF	WF	WF	L	Min Ma	K	WF	WF	WF	[10.007	W 7	
Type I- Hylon, 2.5 oz. rip-stop twill, uncosted		Hylon (polyhemethylemet	exa-			(1)	2.4 2.7	Plain (4 rip stops/in. 2 ends weaving as 1)	80 80	115 115	8 8			
Type II- Hylon 5.5 oz., plain weave, uncoated		u				(1)	5.5±0.5	Plain	22 22	225 225	45 38			
Cloth, Mylon, Ribbe Aircraft Upholstery MIL-C-21318A (AER		Hylon polyment (polyment methylon adipuni	me			(1)	9.0 11.	O Rib	88 36	350 225	20 30		35 25	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Not Specification Requirements)
MII-C-21108A Type I Type II			Thickness: Type II - 0.015 in, max.	Intended Use - For coating with a natural rubber compound for use in 'he manufacture of raft bottoms & associated items Type I is used to make raft bottom cloth for one-man life rafts. Type II is used to make raft bottom cloth for multi-place life rafts.
MTT_C_21 21 PA	Cloth shall be finished without	Color - to metch MCA	Thickness 0.026 in win	Tudon dod Hon - Tu Abo Bobus

Cloth shall be finished without the addition of materials that will increase the flammability of the cloth. MIL-C-21318A

Color - to match TCA
Cable No. 70072 (crepe
side), Indian Orange,
or TCA Cable No. 70153
(crepe side), Steel
Grey (1). Cloth shall
be dyed with acetate
or acid dyes. Matallived or chrome
dyes shall not be
used. Yarn or piece
dyeing is acceptable.
Colorfastness "good"
(5614-5660).

Flame resistance: Ave. length of char- 5.5 in. max. in the warp (5902).

Thickness: 0.036 in. min. Intended Use - In the fabri-Flame resistance: Ava. Intended Use - In the fabri-cation of aircraft upholstery.

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******			YARN			Width	Weight		Yorns		Topics	Air	Shrink-	Point
NOMENCLATURE	F	ber	Pty	76	rne	Inch	02/	-	Per In.	Breaking Strength	Strength	Permea-	oge	Value
	Malting	Type		Denier	File-		Sq W		Min.	Lb. Min.	Lb	blity	Max.	Max.
	Point				ment				(5050)	(5100)	(5134)	(5450)	(5556)	
Cloth. Brice. Plate			WF	WF	WF		Min Max		WF	WF	WF		W P	
Hegers, 1.2 Cance SIII-C-E)182 (AMR) And, 1		Righ tenacit nylon	e y	40 70	13 34	(1)	1.1 1.3	Plain 1/1	117 52	(510 ⁴) 50 50			2\$ 1 } \$	
Cloth, Modernite, Foolis Mil-C-21841 (SAA)		(a) Copelys of acry mitrile vinyl chlorid	4			(5) 38 min.	6,040,5	Plain	85 48	185 85		20	24 24	
Cloth, Plain Weave, Folyaster and Reyon MIL-C-22784A (SMA)	55(±3)\$ polyeste 45(±3)\$ rayon	1 1 ir			(9) 60	4.2 4.9	Plain	70 56	90 70		135	Sj≰ Sj≰	30∙∞

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Usuch as thickness, etc.)	
MIX~C~57#65	(8) Ratural finish; not calendered. Copper content: 0.005# max. Manganese content: 0.001# max. pH: 6.0 = 10.0 (2811).	Color - Unless otherwise specified, color shall be natural.	Selvages shall be $\frac{1}{h}$ max.	Intended Use - As a base clot for coated cloth tape to be used in the repair & construction of airship savelopes.
MTL-C-21841	Boiled off & finished to produce a cloth of maximum tightness. Heat stabilized to provide minimum shrinkage in laundering & tumbler drying. Treated with an organic resinous durable water repellent compound. Spray rating: Initial- 100; After 4 accelerated launderings-70 (5526).	Color - tatural.	Selvages shall be \(\frac{1}{4}\) in. \(\frac{1}{16}\) on each side. \((a)\) Material shall be \(\frac{1}{40}\) or \(\frac{1}{2}\) \(\frac{1}{4}\) or \(\frac{1}{4}\) in \(\frac{1}{4}\) of \(\frac{1}{4}\) in \(\frac{1}{4}\) otherwise \(\frac{1}{4}\) in \(\frac{1}{4}\) otherwise \(\frac{1}{4}\) in \(\frac{1}{4}\) otherwise \(\frac{1}{4}\) in \(\frac{1}{4}\) in \(\frac{1}{4}\) in \(\frac{1}{4}\) in \(\frac{1}{4}\) in \(\frac{1}{4}\) on \(\frac{1}{4}\) in \(Intended Use - In the fabrication of permeable peroxide fuel handlers clothing.
MII-C-21844A	(8)	Color - shall be Blue 3330- std. sample available (3). Polyester component may be dyed using disperse, dispersedeveloped or azo dyes. Rayon component may be pigmented prior to spinning or may be dyed. (6) Colorfastness - standard sample available (5614-5681).	(11)	Intended Use - In submarine coveralls worn by male Navy personnel.



ſ	NOMENCLATURE			YARN			144.44	Weight	Weave		-	Vaccion	Air	Shrink-	Point
1	NOMENCEAL ONE	Fi	DOT .	Ply	Yo	res	inch	02/	******		Breaking Strength	Strength		000	Value
١		Metting	Type		Denier	Filo-		Sq Yd		Min.	Lb. Min.	Lb	bility	Mex.	Max.
ļ		Point				ment				(5050)	(5:00)	(5134)	(5450)	(55F C)	
	Cloth, Mylon, Taffe (2,0 Ounce)	_		WF	WF	WF		Min Ma		WF	WF	WF (5132)		WF	
1	MII-C-21552 (S&A)	win.	semi- dull Nylon		70 70	Continuous	- (1)	2.0 2.3	Tufreta (plain)	106 %	110 95	1650 1350	•	2\$ 2\$	

Cloth, Eunting, Acrylic (a) MH_C-22775A semi- dull acrylic	2	2	3	3	(1)	4.9	•	Plain	30 30	95 100		250	4% 3%	35.00
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NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Not Specification Requirements)
MII_C-21852	(8) Natural finish; not calendered. Copper content: 0.001% max. Man- gamese content: 0.005% max. Heat set at 400°F min. No appreciable change in color, distortion, or puckering; 2% max. dimensional change in either warp or filling (4.4.3).	Color - Green 3406 - standard sample available (3). Colorfastness - standard sample available (5614-5651-5680-5620-5660).	(11) Flex stiffness: 1.5 in. 1b. x 10 ⁻⁴ in the warp; 0.5 in. lb. x 10 ⁻⁴ in the filling.	Intended Use - With or without coating, for special purpose clothing worn by Navy personnel.
MIL-C-22775A	(8-10) Natural finish, equal to the stendard sample.	Color (i) - to match std. shades (3). Colorfastness - standard sample available (5651-5610-5670-AATCC/106-1962).	(11) (a) 2 in. min. steple length. Selvage shall be \$\frac{1}{4}\$ (\pm 1/6) in. Fiber shall be capable of being dyed with basic dyestuffs.	Intended Use - Primarily in the manufacture of signal flags.

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	YA	RN				٦		T			٦				L				2070		
NOMENCLATURE	F	ber	,	tv.		Ye	ras		Width	0	Aght Z/	Wedve	'	Per	in.	Breaking Strengti		atigne	Air Permee-	Shrink-	Point Value
	Malling	Туре	•	•9	De.	der	File	- 1		84	W :		1	Mi	Э.	Lb. Min		Lb	bility	Max,	Max.
	Petet				L,		100 A	_1			لہ			(50		(5100)		34)	(5450)		
Choth, Synthetic, Tvill, Halt Mestet Mil-C-Ribbe (Mar Amt, 1		1	W	ļF	W	F	w	F		Mi	n Mari			W	k.	W F (5104)		jr.		¥	
Type I- 3.0 oc.		High strength			100		50 dnel	50	(1)	3.0	-	2 rigi 2 twi				130 110	13	12	20-40	25 25	
Type II- 4.0 os.		aromatic poly- amide melt- resistan			200		100 :	100	(1)	4.0) -			74	72	170 150	24	24	40-60	21 21	
Cloth, Wrlon, Mar- quisette, Parechut MII-C-25643 (URA		(a) Poly- emide			7 0	70	34	34	(1)	-	0.9	leno (la repest:) log	52	3k	(510 ^k) 35 25	3	3	1600- 1750	135 135	
Cloth, Parachute, Mylon, Aromatic, Romalting MII-C-38351 (USA	F)	<i>(</i> -)																		hickness	
Type I Class 1- 4.7 or	•	(a) Nonmelt ing	- 1	1		200 ±15			(1)	-	4.7	2 ri	ill 111	74	74	190 190	14	14	40-70	0.011	20.00
Class 2- 6.5 or	•	aromati poly-	c 2	2		#~			(1)		6.5	(4)		53	48	265 265	20	20	50-80	0.022	20.00
Class 3- 12.0 c	.	anide	5	5	*	*			(1)	-	12.0	(4)		38	38	425 425	75	75	40-80	0.032	20,00
Type II Class 1- 7.0 or			2	s	*	n			(1)	-	7.0	Plain (1/1)		60	45	285 245 (5100)	20	50	8 max.	0.015	20.00
Class 2- 18.0 cresin treated	7Z.		5	5	"	n			(1)	-	18.0	3/4 basket		59	60	950 950	•			0.036	20.00
NOMENCLATURE		FIN	IISH						SHAE		NO THES	_				UIREME		Dice		NOTES	remests)
NII-C-23882 Type I Type II	(8) Cloth shificient is contaming setting in them be in	to remove ates with the cloth	siz out	ing &	oth nent	er Ly	or sha uti dye Col	oliv il l lise d ye	ve grobe obtation arns.	tain	e oraș (1). (ed by solut: "good	nge Scolor (the line in the li	lamedimedimedimedimedimedimedimedimedimedi	eff.). imax re 10 th or 3). ing.	lcien Stiff in sista sec. sec. f cha Melt Resi	cy: 75% ness: 0. W & F (5) nce: Fla max. Glc max. Av drop- nc stance t 000 cycl din. (530	min. 010 202). We max.	Int cat clo	ended Us	e - In the	fabri-
MIL-C-26643	Finished to impar finish: not change ness shai 10%. pH: 5.0	t firmnes air perus ge more t 11 not ch	s. P abil han ange	ity s 10%; more	ent hall thic	k-	Col	or ·	- Bhai	11 %	e nat	Î M	rom nd e	hex dip	ameth ic ac	. be prep ylene di id or it Thickne	emine s	Ale app	es of pi o intend	e - In the lot paracled for fur in canopy	utes.
MIL-C-38351 Type I Class 1 Class 2 Class 3 Type II Class 1 Class 2	impregnation the finis		resi h sh -0.6 0.65	n, so all h 5 in. -0.85 202).	tha ave lb. in.	t	Col	Lor ·	- sha	11 b	e nati	1 8 e 1 m T	ze (et a F (4 gation m ; Cli II,	temm .4.3) on: T in.; ass 3 Class	not car berature . Ultime ype I, C Class 2- - 15% mi ss 1- 40% . 30% mir 5104).	below te lass 25% n.; min.	pac	e of par	e - In the achute can pack stiff	opies,

MONENO ATIME			YA	RN						Weave	_	rns	Breaking	Transless .	Air	Shrink-	Point
NOMENCLATURE	Fi	ber	P	ty .		Yor	A\$	Inch	Weight Oz/	******	Per	in.	Strength	Strongth	Permee-	oge	Value
	Melting Point	Туре		•	Doni	•	Filo- ment		Sq Yd		(50		(5100)	(5134)	(5450)	Mex. (5556)	Max.
Cloth, Acrylic-Reco (For Cartridge Bags			W	F	WF	F	WF		Min Ma	ı	W	F	WF	WF		V P	
Class 1- Breaking Strength: 60 lb.	i	(a) Acrylic viscose rayon						(1)	4.75 5.	25 Plain- single (1 end/dent)	L	35	60 60				
Class 2- Breaking Strength: 80 lb.		•						(1)	5.75 6.	25 2/1 txt11	34	34	80 80				

(1) 8.75 9.25 2/1 45 45 125 125 tvill

(1) 11.0 11.5 2/2 48 48 170 170 basket

Class 3- Breaking Strength: 125 lb.

Class 4- Breaking Strength: 170 lb.

NOMENCLATURE	FINISH	SHADE AND COLORFAST NESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Plot Specification Requirements)
MIL-C-40070 Class 1 Class 2 Class 3 Class 4	(8) Cloth shall be finished with a starch size. Finished cloth shall not contain more than 10% starch (4.3.2.1.2). Acidity: 0.1% max. Alkalinity: 0.1% max. (4.3.2.4). Cloth shall contain no halogens (4.3.2.5). pH: 5.0 - 9.0 (4.3.2.2).		(11) (a)Acrylic fiber content shall be 50-60% (4.3.2.1.3). Slippage value: all classes- 60 min. (5100). Stretch: all classes- 10% max. (5100)	Cloth is not for use with propellents containing

HOMENCLATURE			Y	LRN			Width			Weave			Tagaina	Air	Siri		Point
HUMENCLAI UNE	F	bor	7	'ty	Ye	rns	inch	Oz/		-	Per in.	Breaking Strength	Strength	Permee-	oge		Value
	Multing	Туре	•	7	Denier	File-		Sq Y	M		Min.	Lb. Min.	Lb	bility	Ma	X .	Max.
	Point					ment			1		(5050)	(5100)	(5134)	(5450)	(555	(6)	
Moth, Cabardina, Polyester and Maron MIL-C-112208			w	F	WF	WF		Min	Mex		WF	WF	WF		w	r	
Type I- 6.0 os. (bleached white)		(a) Polyeth- ylene	2	2			(1)	6.0	-	2	110 52	210 90			2] #	135	40.00
Type II- 6.4 or. (Dyed)	•	glycol tereph- thelete	2	2			(1)	6.4	-	right twill	110 F.	210 105			2 <u>}</u> \$	13%	35,00
Type III- 8.0 os. (Eleached white or dyed)		å reyon steple	2	2			(1)	8.0	-		92 42	280 120			2] \$	137	white- 40.00

Class 1- Risached white Class 2- Dyed

HOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOT	
MIL-C-41820B Type I Type II Type III Type III Class 1 Class 2	(8) Types I & III cloth shall be scoured, heat set & bleached or dyed, to provide a finish equal to that of the standard sample. Type II, Class 2 shall be scoured, heat sat, dyed & resin treated at a time & temperature that will insure adequate curing of the resin. pH: 6.0 - 8.0 (2811).	Color - Types I & III, Class 1 cloth shall be bleached white - std. sample available. Color shall be obtained with a chemical bleach, prefer- ably hydrogen peroxide or peroxygen chemicals. Chemical bleach may be supplemented with a blu- violet fluorescing bri- ghtener. Types II & III, Class 2 cloth shall be dyed - std. sample avail- able (3). Rayon camponent may be pigmented prior to spinning or may be dyed using fast organic dyes (6). Colorfastness - standard sample available. Type I & Type III, Class 1, no discoloration in light (h. h). Type II and Type III, Class 2 (5660- 5614-5680-5651).	(a)Use of optically brightened polyester fiber is permitted for Type I & Type III, Class 1. Unless otherwise specified, the use of optically brightened fiber for Type II & Type III, Class 2 is prohibited. Polyester fiber	Olot Specificati Intended Use - ture of clothing	

NOMENCLATURE		YARN				Width	Weight	Weave	Yorns	Breaking	Tanina	Air	Shrink-	Point	
NUMERCLAI ORE	Fi	ber	Ply		Yarns		Inch (02/	Wedle	Per in.	Strength	Strength	Permes-	090	Value
	Melting Point	Туре	,	0	enier	Fila- ment		Sq Yd		Min. (5050)	(5100)	(5 (34)	(5450)	Max. (5556)	Max.
Cloth, Plain Weave, Mylon: Water Repel- lent 03-106			WF	٧	V F	WF		Min Max		WF	WF	WF		W	
MIL-C-43128A		Bright high tenacit nylon	у		.0 210 \$ ±5\$	Multi- fil:- ment	(1)	3.8 4.8	Plain	80 56	275 225		2.0	3\$ 2\$	40.00

Choth, Spacer (Treated) MIL-C-43204

Polyethylene

Diemeter 0.010 ± 0.001

(9) 60 9.5 11.5 (4) 20 (W 1) min. 19 (W 2)

110 200

Polypropylene 0.010 ± 0.001

27 (W 3) 70 (F)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Plot Specification Requirements)
MTI-c-43128A	(8) Scoured, heat treated & calendered. Water repellent *reatment of aluminum salts of saturated carboxylic acid (such as formate, acetate, palmitate, or stearate), zirconium salts of such saturated carboxilic acids, or a combination of both, mixed with refined vegetable and mineral waxes, titanate exters, or a combination of both. The product shall be applied either in the form of an aqueous emulsion or in the form of a water five solvent solution to effect the deposit of not more than 6% on the weight of the finished cloth. Spray rating 90, 90, 80 (5526). PH: 5.5 - 8.5 (2811).	OC-106 and shall match the standard sample (3). Colorfastness - standard sample available (5671- 561).	(11) Stiffness: 0.005 lb. max. in the warp; 0.004 lb. max. in the filling (5202). Seam efficiency: 85% min. (5110).	Intended Use - In the ruck- sack (Lightweight), the jungle hazmock and the carry- ing case for the collapsible canteen.

MII-C-43204

(8)

Color - (1).

(11-12). Thickness: Initial 0.2 min., Compressed, 0.075 min., After Comp, 0.18 min. Dimensional stability. Change Max. W- 45, F- 25.

Intended Use- Spacer fabric in equipage items.

The residence and the first of the second se

NOMENCLATURE		YARN						Weave	Yorns	Breaking	Tacrino	Air	Shrink-	
- HOMENCENI ONE	F	ber	Ply	Ye	Yurne		Inch Oz/	******	Per In.	Strength	Strength	Permea-	age	Value
	Malting	Туре		Denier	File-		Sq Ye		Min.	Lb. Min.	Lb	bility	Max.	Max.
	Point	,,,			ment				(5050)	(5100)	(5134)	(5450)	(5556)	
Cloth, Cartridge, Folyester-Viscose R (For Cartridge Base MIL-C-13153 (MC)			WF	WF	WF	<u> </u>	Min Max		WF	WF	WF	************	WF	
								m -4-						

Class 1 - Breaking Strength: 90 lb. Polyester-viscose Plain-(1) 4.75 5.25 single 35 35 90 90 rayon (Polyethylane-terephthalate & viscose rayon blend) Class 2 - Breaking Strength: 125 lb. twill (1) 5.75 6.25 2/1 35 35 125 125 Class 3 - Breaking Strength: 175 lb. (1) 8.75 9.25 2/1 45 45 175 175 Class 4 - Breaking Strength: 200 lb. basket (1) 10.75 11.25 2/2 50 50 200 200

Cloth, Spun Viscose Rayon, Resin Impregnated MIL-C-43157 (NU)

(1) 2.80 3.20 Plain 48 48 35 35 Class 1 - Lighter wgt. Viscose rayon, spun (1) 6.75 7.25 Single 35 35 85 85 Class 2 - Reavier wgt. Class 3 - Scarlet colored (1 end (1) 6.75 7.25 in dent) 35 35 85 85

Cloth, Plain Weave, Acrylic MIL-C-43234 (GL)

Acrylic, 1 1 3 denier per (1) 4.8 - Plain 40 34 75 55 crimped filament crimped cut steple

(5552) 42 32 35.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Wot Specification Requirements)
MIL-C-43153 Class 1 Class 2 Class 3 Class 4	(8) Acidity: 0.1≸ max. Alkalinity: 0.1≸ max. (4.3.5). pH: 5.0 - 9.0 (4.3.3).	Color (1).	Slippage value: All classes - 60 min. (4.3.10). Stretch: All classes - 10% max. (4.3.11).	Intended Use - In the manufac- ture of cartridge bags for artillery ammunition.
MIL-C-43157 Class 1 Class 2 Class 3	Cloth shall be finished with a urea formaldehyde resin (past type) plus a durable water repalent (melamine resin base). Loss of breaking strength of the impregnated cloth conditioned in dinitrogen tetraoxide shall be 10% max. Spray rating: 70 (5526). pH: 5.5 - 7.5 (2811).	ified. When color is specified, dye or tint shall be fugitive. Class 3: color shall	Slippage: min. value of 60 (4.3.4). Stretch: 10% max. (4.3.5).	Intended Use - In the manufacture of cartridge begs for artillery propelling charges.
MIL-C-43234	Lightly napped on one side. Regree of character and finish of the cloth shall be equal to the standard sample.	Color - Shall be Olive Green 106 (3). Colorfastness - standard mample available (5610- 5651-5680).		Intended Use - As a component of an insulating cap.

NOMENCLATURE			YARN			win	Weight Weave	Warne	Yorns	Breaking	Tearing	Air	Shrink-	Point
NOMENCLA: UNE	Fi	ber	Pty	Yo	r RB	inch	Oz/	W-014	Per in.	Strength	Strength Perme	Permes-	oge	Value
	Melting Point	Туре	,	Denier	Filo- ment		Sq Yd		Min. (5050)	(5100)	(5134)	(5450)	Mex. (5554)	Max.
Cloth, Pile, Acryli	c,		WF	WF	WF		Min Max		WF	WF	WF		W P	
Piber Pile MIL-C-43251	Pile-	,		3	•	(1)	11.5 13.	5	10 wales					
	staple. Backing	-							20 course	rd'				

Cloth, Plain Weave, Mylon-Cloth, Plain Weave, Polyester WHL-C-43286

cellulose acetate & staples

Type I - Polyester 4.0 oz.

| Bright, 2 2 220 220 Multi- (1) 4.0 - Flain 32 32 200 200 high or the fila- 1 up tenacity equiv- ment 1 down polyester

Type II - Nylon 5.0 oz.

840 840 Mult1- (1) 5.0 - " 22 22 275 275 file-ment Bright 25.00

high tenacity ylon

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MTL-C-43251	Open and sheared. Pile height 13/32 in. ± 1/32 in. pH: 5.5 - 8.0	Color - Green 252 (3). Colorfastness - Standard sample. If none avail- able follow 5614.	(11) Trincetate 45% min.	Intended Use - Lining components in canteen cover. Acrylic type resin used for bonding or anti- curl agent permitted.

MIL-C-43286

Type II

(8)
Scoured and heat treated. Finished cloth shall show no appreciable distortion or puckering, and no dimensional change greater than 3\$ in the warp, 3\$ in the diagonal direction, and 2\$ in the filling.
pH: 5.0 - 8.5 (2811).

Intended Use - As base materials for coated cloths to be utilized in the manufacture of air supported shelters.

Section 17 and the section of the

25.00

1101 MILLS AT 100			YARN			MP 414	100.1-0.0			On other		A1-	44-1-4	Point
NOMENCLATURE	F	ber	Pty	Yo	rre	Width		Weave		Breaking Strongth	Strength		Shrink- age	Value
-	Melting Point	Type		Denier	Fild-		Sq Yd		Mia.	Lb. Min.		bility	Mex.	Max.
	ross.			1					(5050)	(5100)	(5134)	(5450)	(5556)	
Cloth, Plain Weeve, Polyester, Low Air Permebility			WF	WF	WF		Min Ma		WF	WF	WF		WF	
MILEC-33%7A	bright Warp: 2	high ter 20 denie eave). 20 denie be alter	er (±3%), er (±3%), er (±3%),	ephthelate ultifiles 2-ply (pi singles i re (exforc i), 3-ply	ent. Lain For	(5) 41	8,5 -	Flain (or 2 ends weaving as 1)	64 43 (or 128 for the warp in the alter		25 30	2.0 (at 6" of water)		30.00
Cloth, Duck, Fricm 13-Ounce MIL-C-43375A (GL)	ı	(s) Bright high tenscit nylon	or sing		Multi- fila- ment	(1)	12.5 -	Plain 1 up 1 down	56 28	800 700		3.0		35.00
Cloth, Flannel, Acrylic, Rayon and Acetate MIL-C-1362 (GL)	dull a dull r and du			3		min. 1,4 (9)	4.5 -	2 up 2 down: right twill	66 54	70 50			min. 3.5 2.5	25.∞

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES (Not Specification Requirements)
MTI-C-43347A	(8) Cloth shall be scoured, high temperature heat set, calendered, and water repellent treated with a silicone emulsion, to result in a finish equal in character to the standard sample. Spray rating: 90, 90, 90 (5526).	Color - Color shall be netural.	(II)	Intended Use - In the manufacture of air supported tents.
MTI-C-43375A	Scoured, dyed, and heat set. pH: 5.0 - 8.5 (2811).	Color (1) - Standard sample available (3). Colorfastness - standard sample available (5614-5660).	(a)Yarn shall be a poly- amids prepared from hexa- methylene diamine and adipic acid or its derivatives.	Intended Use - In collapsible canteen covers.
MII-C-43462	(8) Cloth shall be scoured.	Color (1) - Standard sumple (3). Colorfastness - Standard sumples available. If no standard sample, follow (5660-5614-5680- 5556).	Resultant blend min. 50% acrylic fiber. Fabric character must match standard sample. Seam efficiency 90% min.	Intended Use - Manufacture of scarves for female personnel.

NOMENCLATURE		YARN				1411.444	Weight	Weave	Morrie	-	Tanada	Air	Shrink-	Pelot
NOMENCEAL ONE	F	ber	Ply	Yo	Yoras		Oz/			Breaking Strength	_		090	Value
	Melting	Туре] '"	Denier	Fila-	1	Sq Yd		Mia.	Lb. Min.	Lb	bility	Mex.	Mox.
	Point		l		ment				(5050)	(5100)	(5134)	(5450)	(5556)	
Cloth. Silica, Phenolic Impregna	ited		WF	WF	WF	*	Min Ma	L	WF	WF	WF		w P	
MIL-C-81251 (W	811							t that it s -R-9299, Ty			. of			1

Cloth, Mylon MIL-C-81268 (WP)

Poly-vinyl Chloride

210 210 1.55 2.00 Plain 22 ° 24 65 65

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, etc.)	NOTES Not Specification Requirements
VIII-C-81251	Uncured resin-impregnated cloth shall contain 28 ± 3% resin solids by weight Uncured resin-impregnated cloth shall contain ½-7% volatile matter by weight. Uncured resin-impregnated cloth shall have a resin flow of 15-21%.		Cured cloth shall have a min. ave. flexural strength of 19000 psi at 75±5°F. No individual value shall be below 18000 psi (method 1031 of Std. 406). Cured cloth shall have a min. ave. tensite strength of 12000 psi at 75±5°F. No individual value shall fall below 1000 psi (method 1011 of Std. 406). Cured cloth shall have a min. specific gravity of 1.67 (method 5011 of Std. 406).	Intended Use - In rocket motors.

MIL-C-81268 (WP)

(11) Intended Use - As a wrapper for the external surface of Thickness: 0.006-0.009 in. Thickness: 0.006-0.009 in.

The same of the sa

MOMENCLATURE		YARN				Width		Weave	Yorns	Breaking	Yearing	inite	Shrink-	Point
NOME NOT THE	Fi	100	Ply	W	rns	Inch	Woight Oz/	4000	Per In.	Strength	Strength	Permes-	000	Value
	Malting	Type		Denler	Filo-		Sq W		Min.	Lb. Min.	L	bility	Max.	Max.
	Point		Ì		ment				(5050)	(5100)	(5134)	(5450)	(5556)	
Cloth, Herringtone Tvill, Polyande,			WF	WF	WF		Min Max		WF	WF	WF		V P	
Moderat MIL-C-81287A (NP)										(5104)				1
Type I- 3.3 os.		Eigh emperate				(5) 45	3.3 3.8	Broken erring-	107 75	90 60	6 5	200	(5552) 2 5 135	
Type II- 5.0 os.	a	romatic ulyamid	•			45	5.0 5.5	trill (4)	94 76	130 100	16 10	100	2\$ 2\$	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as thickness, etc.)	(Not Specification Requirements)

Type I

MTI-C-81280A (WP) (8)

Type I Cloth shall be desized and scoured, Green to match Navy

Type II without permanently setting the cloth, and an anti-static finish added. Cloth shall be heat-set at 500 F. for 15 sec. (min.) and fibers. Cloth shall be desized and scoured, without permanently setting the cloth, and an anti-static finish added. Cloth shall be heat-set at 500°F. for 15 sec. (min.) and shall be well singed on both sides. Flame resistance: Flaming time-both types: 2 sec. max. Glow time-both types: 25 sec. max. Average length of char-Type I; 3.5 in. max.; Type II: 2.5 in. max. (5903T).

Seam efficiency: 80% min. Intended Use - In the fabrication of lightweight flight clothing.

REFERENCES

SYMMETIC OR MIXED SYMPSETIC CLOSE - WOVE

Textile Test Methods - CCC-T-191b

Method	11t2a
	Chemical
2811 2810 2611	Honfibrous materials, enzyme method. Acidity (pH), colorimetric method. Acidity (pH), potentiometric method.
	Construction
5020 5050 5030	Wilth of cloth. Yarns per inch in woven cloth. Thickness of cloth.
	Mechanical
5100 5104 5110 5120 5122 5134 5136 5202 5308 5410	Strength and elongation, breaking, of woven cloth, greb method. Strength and elongation, breaking, of woven cloth, rawel strip method. Sewability; strength-of-seem method. Bursting strength, ball method. Sursting strength, diaphragm. Tearing strength, tongue method. Thearing strength, trapezoid method. Stiffness, directional, cantilever bending method (Tinius Oisen). Abrasion Resistance of Cloth; Unifor. Abrasion (Schiefer) method. Slippage resistance of yarms in cloth.
	Air Perseability and Water Pesistance
5450 5514 5526	Air permeability, calibrated orifice method (Frazier). Water resistance, hydrostat. pressure, low range. Water resistance, with hydropublic finish, spray method.
	Shrinkage Resistance
5550 5552 5556	Shrinkage in laundering; cotton, linen, and mixed clotton and linen cloth. Shrinkage in laundering; cloth other than cotton and linen. Shrinkage in laundering; mobile laundry method.
	Colorfastness
5614 5620 5622 5630 5632 5651 5660 5670 5671 5680 5632	Laundering of wool, silk, rayon cloth; Launder-Ometer. Dry cleaning (petroleum solvent). Wet cleaning (with dry cleaning). Water, cold. Salt water and soap. Crocking of cloth. Light; accelerated (Fade-Ometer). Weather; accelerated method (Twin Arc Weather-Ometer). Weather; accelerated method (Mational Weathering Unit). Perspiration; perspirometer method. Perspiration; tube method.
	Deterioration Tests
5850 5852 5872	Aging; accelerated over met' j. Aging; accelerated oxygen method. Temperature, nigh; blocking. Fire-Resis ance Thermal Tests
EOVO	Fire-Resis ance Thermal Tests
5902 5903 5910	Flame resistance; vertical. Flame resistance of clotn; modified vertical. Burning rate of cloth; 30° angle.

GENERAL BOTES

MINIS PIRES CLOTES - WOVEN

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers refer to this page for further information dealing with specific portions of the item.

As specified.
Reprocessed, reused, noils, roving, etc.
Colorastching.
Eonfibrous, etc., restrictions.
Woave instructions or pattern.

(6) Markings, insignia, etc.
(7) Preproduction sample.
(8) Sulfur dyes.
(9) Width exclusive of selvage.
(10) Bid sample and laboratory report.
(11) Width inclusive of selvage.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

MIXED FIBER CLOTHS-WOVEN

NOMENCLATURE	Fiber Content	Ply		olen Irns	Synti Yer		Width inch	Weight Oz/ Sq W	Weave	Per in.	Bracking Strangth L.b. Min.	Strength	2	Shrick ego MCR.	Polit Valo Mar.
			Gras I USDA	System	Denisr	File- ment				(5050)	(5100)	(5134)	(5450)	(5554)	
Redspread, Crtton or Cotton/Rayon Ellend 100-B-151e (See also under		WF			WF	WF		Min/Max		WIF	w it	WIF		WIF	

See under Cotton Cloths for all other requirements.

Type I- Crinkle Cotton or 1 1 blend of 50(±5) 1 1 cotton & Type III- Herring- 50(±5) home stripe

Type IV- Corded

strength modulus- 1 1

type rayon (Type IV cords-all

cotton)

filling

Cloth, Lyterlining, Cotton Warp, and Spum Hair-Wool Filling MII-C-297D

Type I- Med. wgt. Co	tton 11	Worsted	(1) 7.	.o 8.o P1	ain 44 38	3 50	45	Fresi 3≸	runk	40.00
	rp, or 2		1-/ 11			, ,,	• ,	3 <i>P</i>	-,-	+0.00
Type II- Rvy. wgt. go		•	(1) 8.	0 9.0	* 44 38	50	45	3≸	15	40.00
OZ.	aple " sece pulled ol (2)	+	(1) 5.	o 6 . 0	* հե հ <u></u> ር	50	38	3≸	1\$	40.00

NOMENCLATURE	FINISH	SHADE AND	OTHER REQUIREMENTS	NOTES
			(Such as Thickness, Water Repellancy, etc.)	Diot Specification Requirements)

DOD-B-151e Type I Type II Type III Type IV

see under Cotton Cloths for all requirements, notes, etc.

MTL-C-297D Type II
Type III

(4)

Color - Warp shall be Color - Warp shall be umbleached matural. Filling shall be the natural color of the hair and wool.

(5555)

and the same of th

Stiffness (measured parallel with the filling):
Type I- 0.011 load lb. min.
Type II- 0.016
Type III- 0.005 " (5202).
Animal fiber content: 50% min. (2100).

97.

NOMENCLATURE	Fiber Content	Ply		olen irns	Synth		Width Inch	Weight Oz/ Sq Wi	Weave	Yarns Per in Min.	Breaking Strength Lb. Min.	Tearing Strength Lb.	Air Permec- bility	Shrink- aga Max.	Point Value Max.
			Grade UBDA	System	Denier	Fils- ment				(5050)	(5100)	(5134)	(5450)	(5556)	Į.
Elambet, Bed (Other Then All Cool) IND-B-521e (See also under Cotton Cloths) Type I- All Cotton (See Cotton Cloth		WF			WiF	WF		Min/Hex		WF	WIF	WF		WF	
Type II- Cotton W, wool F Class 1- Twill (Double filling) Size 1- 60x80 is Size 2- 66x90 is Size 3- 72x90 is Size 4- 66x84 is	z, 20% cotto z, 880% wool z, 8/or rupe	l ro- ool	կկ · g nin.					(1h.) (blanket) 3.3 3.45 4.1 7.3 4.4 4.6 3.8 4.0	(5) (5) (5) (5)	85 85 85 85 85 85 85 85 85 85 85 85 85 8	38 36 38 36 38 36 38 36			(5552) 10% 10% 10% 10% 10% 10%	
Type III- Blended Aylon-wool-rayon-cotton and other fibers Class 1- Twill (Double filling) Size 1- 60x80 in Size 2- 66x90 in Size 3- 72x90 in Size 4- 66x84 in	a. &/or repr	rocesses min. S max otton iters vool,						(1b.) 3.3 3.4 4.1 4.4 4.4 4.6 3.8 4.0	(5) (5) (5) (5)	22 20 22 20 22 20 22 20	35 30 35 30 35 30 35 30			10% 10% 10% 10% 10% 10% 20% 10%	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES Olot Specification Requirements)
DDD-B-42le Type II Type II Class 1 Size 2 Size 3 Size 4 Type III Class 1 Size 2 Size 3 Size 3 Size 1	(4) All types - finished equal to the standard smaple with respect to map and hand. The napped fibers shall offer considerable resistance to lifting with a needle.	Color (1) - When white is specified, color shall be unblesched white consistent with the natural color of the specified fibers. Wool shall be selected to swoid the presence of black fibers. Black fiber content shall be no greater than that of the standard sample. Std. sample available for all other colors specified (3 Colorfustness - standard sample available (5651-5614). (6)	•	Intended Use - As bed coverings

NOMENCLATURE	Fiber Content	P	iy		olen ras		hetic rns	Width Inch	Weight Oz/ Sq Yii	Wedve	Yarne Per in Min.	Breaking Strength Lb. Min.		Air Formos bility	Shrink opp Max	Point Voice Max.
				Grode USDA	System	Denier	Fila- ment				(5050)			(5450)		
Scarfs, Chapteins' MIL-S-422E		W	F			WF	WF		Min/Max		WF	WF	WF		WF	
Type I- Scarf, Chaplain's, Christian Faith (Arry)	(a) Benga- line: rayon varp;	-	2				Multi- fila- ment		7.0	Plain	140 25	100 100				
Type II- Scurf, Chaplain's, Jewish Faith (Army)	cotton filling	-	2						7.0		140 25	100 100				
Type II- Scarf, Chaplain's, Christian Faith (Air Force)		•	2						7.0	"	140 25	100 100				
Type IV- Scarf, Chaplain's, Jevish Faith (Air Force)		-	2						7.0	**	140 25	100 100				
Cloth, Nylon Buntin and Cloth, Nylon-an Wool Bunting CCC-C-476d (See also under	₫-															
Synthetic Cloths) Type I- 100% Nylo filement (See Synthetic Cloths)	n															
	m staple	2 (2)	2	կակեր	Bradfo French Americ	or		(1) ± ± 2	4.8 -	Plain	32 30	115 100				

NOMENCLATURE	E C'NISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES (Not Specification Requirements)
MII-C-422B Type I Type II Type III Type IV		Color - Type I: Black (Caole No. 65018); Type II Bleached white; Types III & IV: Silver Grey (Cahle No. 65008). Standard samples available for all shades (3-8). Colorfastness- standard sample available (5622- 5680-5651-5660). (6)	(7) (a)Rayon shall be high luster, regenerated cellulose type, of the viscose or cupramonium process.	Guide sample available.
ccc-c-476a	Crabbed, sheared on both sides,	Color (1)- Colors speci-	There shall be a plain	Intended Use - Primarily in

Type I Type II

and given a commercial anti-static finish.

Color (1)- Colors specified for the American Flag shall be in accordance with requirements specified in DDD-F-416, Standard sample available for other colors specified (3).

Colorfastness - standard sample available (5632-5630-5651-5660).

woven selvage on each side, \frac{1}{2} in (\frac{1}{2} \frac{1}{8} in.) wide, with 2 ends weaving as 1.

the manufacture of various types of flags.

NOMENCLATURE	Fiber Content	Ply		cien rns	Synti	her ic no	Width Inch	Weight Oz/ Sq Yd	Weave	Yorns Per In. Min.	Breaking Strength Lb. Min.	Teering Strength Lb.	Air Shrink-	Point Value Max.
			Grade USDA		Denier	File- ment				(5050)	(5100)	(5134)	(5450) (5556)	
Cloth, Pile, Albeca and Cloth, Pile, Wo Mil-C-4838		WF			WF	WĮF	(9)	Kin/lex	Backing	P11.	WF	WF Pile length (in,)	₩ F Animal Fiber %-age	
Type I- Cloth, wo pile, double face, 5/16 in.	nu: Pile	ing); (Yarns:	vool;	50's-5	6's; 2-	ply;	zin.	15.0	Modified 36 "W" weave (5)	3 19 32	65 50	5/16 (5/32 es. face)	60	
Type II- Cloth, we pile, double face, 1/2 in.								20.5	" 3ē	3 19 36	<i>6</i> 0 70	$\frac{1}{2}$ ($\frac{1}{k}$ ea. face)	. 60	
Type VII- Cloth, alpaca, pile, single face, 1/2 in.	for : Pile 2-pl;	and I	II. alpac iford,	yarns: a; 56's Prench,	min.;	•	•	19.0	Fast 54 pile (5)	18 46	60 90	2	55	
Type IX- Cloth, we pile, double face, 1/4 in.	for	and I	п.	as for				14.0	Hodified 38 "W" weave (5)	3 19 32	65 50	1 (1/8 each face)	60	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES (Not Specification Requirements)
MIL-C-483B Type T Type II Type II Type IX	(4) Pile shall be tigered, so that pile tufts are open to within 1/8 in, of the ground cloth and in an upright position. Pile shall be vacuumed to remove loose fibers. Cloth shall show no more than a trace of loose fibers or compound when shaken vigorously over a smooth black surface. Cloth shall have a properly applied silico fluoride moth repellent treatment. Animal fiber shall have 0.4 - 0.7% fluorine (4.4.1). Pil: 3.3 - 4.5 (2811).	Color - Type VII: natural Types I, II & IX: natural or dyed(1). Standard sample available for dyed (3). Color to te obtained by chrome or neutral premetallized dyestuffs by piece, stock, or yarn methods. Colorfastness - standard sample available (5651-5614-5622-5690).		Intended Use - As a protective lining for cold climate clothing, and to be used in the manufacture of winter flying clothing.

HOMENCLATURE	Fiber Convent	Ply		olen ras	Synt		Width	Weight Oz/ Sq Yd	Weave			Tearing Strength Lb.	Shrink ego MCX.	Polit de la company
	i		Grade USDA	System	Denier	Fila- ment				(5050)		(5134)		
Towel or Disheloth [Cresh, Cotton, and		WF			WF	WF	·	Min/Max		WF	WF	WF	WF	

17 6.0

min.

Plain 28 22 45 35

40.00

The second second second second

Cotton and Linen-Hixed); Cloth, Crash, Cotton Cloths)

Type I- Towel or disheloth Class 1- Cotton Cotton & warp and linen Linen filling (unbleached)

Class 2- All Cotton (bleached) (See under Cotton Cloths)

Type II- Cloth, crash, cotton (bleached) (S.e under Cotton Cloths)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repelloncy, etc.)	NC/TES (Not Specification Requirements)
DDD-T-51lc Type I Class 1 Class 2 Type II	(4) Type I, Class I towels shall be scoured and unbleached.	When specified, towels shall have woven, colored stripes, 3/16 - 5/16 in. wide, located 7/16 - 9/16 in. from	The height of the rise of the colored water shall be a min. of 6 cm. in 5 min. in both warp and fill.	

coch selvage edge. Colorfastness - stripes shall show "good" fastness (5600-5610).

NOMENCLATURE	Fiber Centent	Ply		olen Irns	Synti Yer		Width	Weight Oz/ Sq W	Weave	Yorns Per In Min.	Breaking Strangth Lb. Min.	Tearing Skrangtik Lb.	Air Fermon- bility	Strint- ege Máx.	Point Value Max.
			Grade USDA	System	Denier	File- ment				(5060)	(5100)	(5134)	(5450)		
Cloth, Serme, Wool; Wool and Mylon Mil-C-823, And. 2 (See also under Wool Cloths)		WF			WIF	WIF		Min/Max		WF	WF	WIF		WF	

Type I- Wool (See Wool Cloths)

Type II- Wool 83% m'n.

Class 1- 18 cs.
Class 2- 16 cs.

Class 2- 16 cs.

Class 2- 16 cs.

Class 2- 16 cs.

Class 2- 16 cs.

Class 2- 16 cs.

Class 2- 16 cs.

Class 2- 16 cs.

Class 2- 16 cs.

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Class 2- 16 cs.

Class 2- 16 cs.

Class 2- 16 cs.

Class 2- 16 cs.

Class 3- 16 cs.

Class 3- 16 cs.

Class 3- 16 cs.

Class 2- 16 cs.

Class 3- 16 cs.

wool content 95% of wool

(9) 60 18.0 - 4-harness min. 16.0 - 2 right (54" 2 twill lin yd)

66 52 135 120 70 54 120 110

(5558) 4% 24% 10.00 4% 24% 10.00

Cloth, Fleece, Cotton Warp and Wool-Rylon Filling; Lining, 15-0z. Shrink

Resistant
MH-C-2069D (GL) Filling: 2 1 (a) Woolen
Flace &/or
pulled wool
(80% min) & staple mylon (10-20%)(2) Warp: cotton

(9)
56 15.0 16.5 2' right min. (54" lin 2 tvill
yd) 36 36 40 30

15.00

NOMENCLATURE	Finish	SHADE AND COLORFAST NESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES (Not Specification Requirements)
MIL-C-823E Type I Type II Class 1 Class 2	Fulled and sheared and otherwise finished to give stability of color and finish. Type and character of finish shall conform to that of standard sample. Supplier shall obtain approval for finish prior to production. pH: 5.5 - 8.5 (2811).	Color - Color, types of colorants, and methods of coloring (1). Standard samples available (3). Speck dyeing prohibited. Army Green 44 to be produced by blending dyed wool top. Unless otherwise authorized, piece dyeing is prohibited. Colorfastness - standard sample available (5660-5622-5680-5651).	(7)(10).	Intended Use - In service, semi- dress, and dress uniforms and functional clothing used by the DOD.
MTT.=C=2069D	Fulled and namped on face and back	Color - Shall be Olive	(7) Wool blend.	Intended Hee - For the lining

Fulled and napped on face and back to equal standard sample. Napped fibers shall offer considerable resistance to lifting with a needle. Treated for resistance to felting shrinkage by an approved oxidation or resin process. When oxidation process for shrinkage resistance is used, alkali solubility of treated cloth shall not increase more than 5% (2800).
pH: 4.0 = 8.0 (2811).

Color - Shall be Olive
Green 104 - standard
sample available (3-8).
Colorfastness - standard
sample available (56145680-5651).

(7) Wool blend.
(a) 40% min. - 56's
40% max. - 50's
(reprocessed)

For the lining for the fur ruffed hood,

NOMENCLATURE	Fiber Content	Ply		olon rns	Synth		Width	0		Weave	Per In.	Breaking Strength Lb. Min.	Strength	 Strink- ego Max.	Point \talue Max.
			Grade USDA		Denier						(5050)		(5134)		
Cloth, Frien and Cotton, Intervoven NOT-C-4487 (USAF)	Cotton & bright high ten- ecity mylon	W F			₩ F 70 100	•	(9) 40 min.	Min/	Max 4.5		W F 184 82 (mylon: 92, cotton: 92)	(\$154) 110 110	W F 8 -	W F Preshrun 4	k

Cloth, Cotton	Back	
Reyon Tvill		
Reyon WILL MIL-C-5645,	And.	1

(a) Type I- High ten- acity rayon warp	Cotton & bright viscose	2 or 3	Contin-	40 <u>1</u> 42	- 8.5 9.25	1	240 62	(5104) 185 90	6 5	17	3-1	Shrir under 25		lean
Type II- Semi- high tenecity rayon warp	process	*	**	••	8.5 9.25	faced twill	240 62	150 90	5 5	17	5%	2%	3≸	25
Type III- Regular reyon warp			"		8.5 9.25		240 62	130 90	41/2 5	17	5%	2%	3%	2\$

NOMENCLATURE	Finish	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES (Not Specification Requirements)
MIL-C-4487 (USAF)	erials to increase weight or break-	fied (8). Colorfastness - "good" (5614-5651-5660-5682).		Intended Use - In the manufacture of special flying clothing.
NII-C-5645 Type I Type II Type III		Color (1) - To be obtained with vat dyes. Colorfastness - "good" (5660-5622-5610-5632-5620-5651-5680-5682).	(a)Unless otherwise specified. Type Il shall be furnished.	Intended Use - In the fabri- cation of flight garments.

NOMENCL	ATURE	Fiber Content	Pl	 	oolen Orns	Synti	ne -	Widib	Weight Oz/ Sq Yd	Weave		Breaking Strength Lb. Mh.			Strink- ego Max.	Point Value Max.
				USD/	Systam.	COMME	Fila- ment				(5050)	(5100)	(5134)	(5450)	5556)	
Cloth, Taff Face Wool E Cloth, Sati Face Wool E MIL-C-879	ack and n, Revon	_	W			WF	WF		Min/Max		WF	WF	W F		WIF	

NOMENCLATURE	FiNISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES (Not Specification Requirements)
MIL-C-8797A (ASG) Type I Type II	Cloth shall be uniformly mapped on wool-backed side to provide a finish equal to the standard sample. Type	Culorfastness - standard	(7) (a)Yarns/Inch: Type I- R lon warp: 168; Hylon fill: 64; Wool fill: 64. Type II- Rayon warp: 320; Rayon fill: 76; wool fill: 76. Sewability: 70% min. (5110).	Intended Use - In the fabrication of flight clothing and uniform clothing. They are used in the clothing as 200 or surface, lining and pocketing.

and an area of the state of the

NOMENCLATURE	Fiber Content	Piy		olea 1786	Syati		Width Inch	Weight Oz/ Sq Wi	Weeve	Per In.	Breaking Strength Lb. Min.		Air Permes- bility	Shrink- age Max	Point Value Max.
			Greate USDA	Syclos	Denier	File- ment				(5050)			(5450)	(5556)	
Cloth, Flammel, Wool		WIF		1	WF	WF	<u> </u>	Min/Max	·	WF	WF	WF		WF	-
end kylon, 16-0c, Seriak kosistant MIL-C-11055D (GL)	45% min. fleecs &/or pulli wool 10% min. stap mylv. 40% max. wool noils (2).	i a	nev: 62's noils 60's	Voolen			(9) 56 ndn.	16.0 -	2 broken twill (2 ends right, C ends left)	3 8 33	5C 40	(Pesting	(5558) 5% 5% (5554) 5% 3% Shrinks	10.00 ge)
Scarf, Herbrear;	(a) Cotton & flasce &/o pulled wo:	2 or cott		Worste	i			5.0 -	2 right 2 twill (3 cotton ends on each edge)	28 25	30 15			5 % 5 %	

HOMENCLATURE	Finish	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repelloncy, etc.)	NOTES (Not Specification Requirements)
MIZ-C-11055D	Cloth shall be fulled (wool stock carbonized if necessary), napped and cropped. Finished cloth shall have uniformly developed closely cropped finish, with the same degree of soft hand, drape, and character of finish on the face and back as the standard sample. Approved shrinkage control treatment for felting shrinkage, by an oxidation, resin, or by interfacial polymerization process. When resin or interfacial polymerization are used, stiffness shall "e 0.011 lead lb. max. in the warp. When oxidation is used, alkali solubility shall not increase more than \$\frac{\phi_1}{\phi_1}\$ (4.0 - 3.0 (2811).	obtained by blending chrome or neutral premetallized dyed wool and nylon. Speck and piece dyeing are prohibited.(3) Colorfastness - standard sample available (5660-5622-5680-5614-5651).		Intended Use - As shirting material for male military personnel, as a component of the cold-wet and cold-dry uniform for temperate and cold areas.
mii-s-17868a	Type and character of finish shall conform to the standard sample. pH: 4.0 - 8.0 (2310).	Color - Shall te red to match standard sample (3) Yarn shall be dyed. Colorfastness - "fair" (5614-5682-5622-5651- 5660).	(a)Cotton yarn for doup edges shall have sufficient strength to maintain selvages in their proper alignment ithout fraying of supping.	Intended Use - Scarf for use by female personnel of the U.S. Marine Corps. Guide sample available.

NOMENCLATURE	Fiber Content	Ply		oien trus	Synti Yor		Width	Weight Oz/ Sq Wi	Weeve	Yorns Per in	Breaking Strangth Lb. Mir.	Teering Strongth Lb.	Air Permee- bility	Shrink ego Max.	Point Value Nick
			Grade USDA	System	Denier	File- ment				(5060)		1		(5554)	
Cloth, Tropical: Wool; Folyester/Woo. MH-C-21115k (GL) Amd. 1 (See also under Wool Cloths	1	WF			WIF	WF		Min/Max		WF	WF	WF		W F (5558)	
Type I- Wool (See Wool Cloths) Type III- Folyeste vool blend		2 2	64's	Eradfo French America	or or		(9) 60 min.	9.0+0.5 (0275%" lin yd)	Plain	St 112	100 8c				except 6-1 - 12.00 15.00 N-1
Cloth, Sateen, Cott. Marp and Mylon Fill NIL-C-21848A (SA)	ing		ı		200 20	0 34 34	(1)	9 . 2 -	5-barness satin (5)	85 %	140 300			(5550) 2 5 2 5	30.00

NOMENCLATURE	FINISH	SHADE AND COLORFAST NESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES Mot Specification Requirements)
MIL-C-21115E Type I Type II	Cloth shall be scoured, brushed, sheared, and singed, pre-sed and decated to equal standard sample. Cloth shall show no more creping after shrinkage test than standard sample. Cloth shall now no more pilling than standard sample. PH: 5.5 - 8.5 (2811).	Color (1) - standard sample available. Color shall be obtained by blending top dyed wool with stock, top or towed dyed polyester, with wool and polyester fibers dyed separately, then blended. Pigmented fibers may be used instead of dyed as long as color is equal to that of standard sample. Monotone shade shall present a solid appearance with no more heatheriness than standard sample. (3) Colorfastness - standard sample available (5622-5651-5660-5680).	ethylene glycol terspitha- late, either homopolymer or modified polymer as appropriate. Min. avg. fiber length: 3 in.	Intended Use - In the manufacture of shirts, costs, and trousers for officers and enlisted personnel.
MIL-C-21848A	(4)	Color - Shall match Green 3423 (5) - standard sample available (8). Colorfastness - standard sample available (5651- 5660-5610-5680).	(7)	Intended Use - In clothing items for use by Navy personnel.

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HOMENCLATURE	Fiber Content	Pty		elen rse	Systi Yor		Width	Weight Oz/ Sq Wi	Weave	Per In.	Breaking Strength L.b. Min.	Strangth		Shrink- oge Max.	Point Volue Mex.
			Grede USCA	System	Denier	File- ment				(5050)		(5134)			1
Cloth, Polyester	<u></u>	WF	-		WF	WF	(0)	Min/Max	· · · · · · · · · · · · · · · · · · ·	WF	WF	WF	4	WF	
Mil-C-22091 (8A)	65(12)\$ polyethy- lene glycol terephtha- lata. 35(+2)\$ cotton.	11					(9) 45 min.	5.2 -	2 right 1 twill	127 58	190 70		35	হা হা	30.00

Cloth, Broadcloth, Polymeter and Cotton; Cloth, Poplin, Polyceter and Cotton NII-C-21001B (SA)

Type I- Broadclot Class 1- Khaki 371k Class 2- White 302k Type II- Poplin	65(±2)\$ polyester and 35(±2)\$ cotton	_	1	1.5 &/or 3.0	(9) 42 min. (sel- vage: 1 in.	3.2 3.7 3.2 3.7	Plain	120 70 80 36 120 70 80 36	Preshrunk 1% 1% 30.00 1% 1% 30.00	
Class 1- Khaki 3715 Class 2- White 3013			1	*	max.	4.2 4.7	o,	100 40 100 40 100 40 100 40	1 % 1 % 30.00	

NOMENCLATURE	Finish	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES (Not Specification Requirements)
MII_C-21851	(4)	Color - Cloth thall be dyed to match Blue 3329 (3-8). Standard sample. Colorfastness - standard sample available (5610-5680-5651).		Intended Use - In the manufacture of submarine overalls worn by male Navy personnel.
MIL-C 2.881B Type I Class 1 Class 2 Type II Class 1 Class 2	(4) Stiffness, - Initial: Type I- 0.6 x 10 ⁻⁴ in-1b max: Type II- 1.0 x 10 ⁻⁴ in-1b max. After laundering: Type I- 0.25 x 10 ⁻⁴ in-1b min; Type II- 0.40 x 10 ⁻⁴ in-1b min (5206). pH: 5.0 - 8.0 (2811).	Color (1-8-3). When Khaki 3714 or 3715 is specified, cotton fibers shall be vat dyed ani polyester fibers shall be dyed with suitable fast dye. When White 3024 or 3013 is specified, cloth shall be tleached and tinted with Vat Blue 6, C.I. No. 69825/6 to match standard sample. Colorfastness - standard sample available for dyed cloth (5660-5610-5680-5600-5651).	(7) Seam efficiency: 80% min. (5110).	Intended Use - For use in shirts and boxer style drawers worn by Navy personnel.

NOMENCLATURE	Fiber Content	Ply		olen Irne	Synt You		Width Inch	Weight 0z/ Sq Wi	Weeve	Yerns Per la Mer.	Sireting Otrongth Lb. Min.	Tearing Strongth Lb.	Air Permee- bility	Strint Spe Max.	Point Value Max.
			Grade USQA	System	Denier	Filet- ment				(5060)			(5450)	(5554)	
Cloth, Satin, Rayon Warp and		WF			WF	WF	*	Hin/Nex		WF	WF	WF		WF	
Cotton Filling NIL-C-21883A (SA)	Cotton & bright viscose rayon	- 1			300 -	Con tin- uous	(9) - 41 min.	7.9 8.5	5-harness satin (5)	144 56	27 5 70			8≰ 3≴	30.00
Cloth, Polyester Fiber, Cotton MIL-C-22148 (MC)	(a) 35(±2)\$ cotton 65(+2)\$ semi-dull	1 1			3 3		(1)	2.9	Plain	92 80	45 40		P	(5552) resbrun 1\$ 1\$	s

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES (Not Specification Requirements)
ипc-21883A	(a) Cloth shall have a natural finish. It shall be desized and finished with minimal varpwise tension. Use of finishing or loading materials to increase weight or breaking strength is prohibited.	Color (1) - To match specified Navy Shades (3). Cotton yarn shall be unbleached and undyed. Rayon warp yarn shall be "colution dyed" with coloring pigments introduced into the viscose solution before yarn is spun. White yarn shall be bright, unpigmented. Coloriaturess - standard sample available (5610-5660).	(7) Selvage shall be 3/8 (21/16) in, wide and may be made from white or colored yarn.	Intended Use - In the manufac- ture of identification garment worn by aircraft carrier fligh deck personnel.
MII-C-221½8	(4) Cloth shall not show pilling tendencies to exceed 1 pill/sq.in. Cloth shall be heat set to show no distortion and remain dimensionally stable when pressed with a flat iron at 300 (+15°)F.	Color - Shall be White M+10 or Green M230 (1) and shall match approved shade sample (3). Colorfastness - "good" (5600-5651-5622-5614-5660-5682).	(7) (a)Folyester fiber shall be polyethylene glocol terephthalate, with a staple length of $1\frac{1}{2}$ in. min.	Intended Use - In the manufac- ture of shirtwaists worn by femals performal of the Marine Torps.

NOMENCLATURE	Fiber Content	PI	,		olen rns		ntt.	setic ne	Width	Weight Oz/ Sq W	Weeve	Yerns Per ts. Min.	Str	ating ingth	Stri	oring ingth	Air Permeo- bility	Shri ogo Ma		Point Value Max.
				Grade USDA	System	Deni	•	Fila- ment				(5050)	(5	100)	(5)	34)	(5450)	6 55	(6)	
Cloth, Cotton and Polymeter Fiber, For Gumer Uniforms MIL-C-27353 (USAY And. 1)	w	F			W		WF		Min/Mex		WF	W	F	W	F		W	F	
Type I- Plain	(%) 50-55% polyester & 45-50% cotton	1	1			3	3		(1)	4.3 4.7	Plain (1/1)	64 49	60	50	8	5)	100	1\$:	1\$	30.00
Type 71- Twill weare		1	1			3	3		(1)	6.3 6.7	2 right 1 twill	100 55	105	65	3	7	30	1\$:	1\$	30.00
Cloth, Broadcloth [End-and-had] Polymeter and Cotton MIL-C-38419 (USA)	n (a) 65% min. polyester a cotton 30% min.	1	1			1.5	1.5	5	(1)	3.2 3.7	(b) Plain	100 64	70	52				(555 1%		25,00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, stc.)	NOTES (Not Specification Requirements)
MIL-C-27253 Type I Type II	(4) Before dyeing, cloth shall be desized, scoured, and mercerized to give a lustrous finish. Type I cloth shall be brushed (not napped) to raise surface fibers on both sides, heat set and singed. Type II cloth shall have warp twill face brushed (not napped), then singed, and filling face heat ret, then singed without brushing.	Vat dyes shall be used	(a)Polyester shall be of terephthalic acid end ethylene glycol, 14 in. staple length, with a min. fiber tenacity of 3.5 grams per denier (at 60% elongation/min.) and a min. melting point of 232°C. Sewability:	Intended Use - In the fabricatio of summer uniforms.
NIL≖C-38419	(4) Cloth shall be scoured, singed, stabilized and mercerized for a smooth, lustrous finish equal to that of the standard sample.	Color - Cloth shall match approved standard shade USAF Blue 1550 (3-8). Colorfastness - standard sample available (5660-5680-5651-AATCC, Type IV).	be polyethylene glycol terepithalate. (b)Cloth shall be in an end-and-	Intended Use - In the manufacture of shirts and shirtwaists worn by Air Force personnel.

Synthetic Yorns

Fiber Content

Fly

NOMENCLATURE

Width Weight Inch Oz/ Sq Yd

				USDA	эустан			ent										(5134)	(5450)		
Cloth, Corded Polyester-Cotton Warp and Polyester Filling MII-C-40052C	(a) Cotton & semi-dull polyester		1			15	r f	ulti	(11) - 45 min.	h.		Plain (warp at 2 ends (1 end s) polyeste	tripe cotto pun			500	3 00	WIF		W F (5552) 2% 2%	25.00
Cloth, Duck; Cotton and Rylon MII-C-41835A (GL) And. 1	45-50% Cotton & 55% max. semi-dull nylon	3	3						(1)	14.5	· •	Plati	n	46	26	425	300		3.0		35.00

me o disposition

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repallancy, etc.)	NOTES Alot Specification Requirements)
MII-C-40052C	(4)	Color (1) - standard sample available (3). Color of ground warp shall be obtained by yarn or piece dyeing. Polyester shall be natural color (8). Colorfasteness - standard sample available (561)-5651-5660-5680).	(a)Polyester shall be polyethylene glycol terephthalate. Warp yarn shall have a min. staple length of 12 in.	Intended Use - In women's summer uniforms.
MIL-C-41836A	Cloth shall be mildew resistant treated with copper 8-quinolino- late, so that treated cloth con- tains 0.04-0.15% copper as metal from 8-quinolinolate (2050 or 2051).	Color (2) - standard sample available (3). Use of disperse dyes on the nylon is pro- hibited (8). Colorfastness - standard sample available (5671).	(7)	Intended Use - In the manufacture of tropical combat boots.

NOMENCLATURE	Fiber Centent	Pi		belen lerne	Synt You		width inch	Weight Oz/ Sq W	Weave	For It.	Breaking Strongth Lb. 13fn.	Strength	Air Permec- bility	Shrink- ogo Max.	Point Value Max.
			Grad USD	System	Denier	File- ment				(5050)	(5100)	(5134)		(5556)	
Cloth, Wind Resis-		W	3		WF	WF		Min/Max		WF	WF	WF		WF	
tent Setsen, Cotton end Brion htt-C-13191	(a) 50%(-5%) Cotton & 50%(+5%)	1	1	:	2-3 2-3	l	(1)	8.5 9.0	5-harness sateen (5)		180 180	(5132) 6 6	7.0	(5550) 25 2 5	30.00

(See also under Wool Cloths)

Type I- Wool (See Wool Cloths)

Type II- Synthetic
Wool
Class 1- 15.5 oz.,
Rlue 83% min. 1 1 70's Woolen
Class 2- 16.5 ox., flasce(2)
Scarlet and/or 1 1 60's "
pulled
wool &
17% max.

(9)
54 15.0 16.0 2 right 56 55 50 45
min.
16.0 17.0 54 54 55 45

(5590) 2**%** 15**%** 15.00 31/2 21/2 15.00

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Water Repellancy, etc.)	NOTES Olot Specification Requirements)
	(4) Cloth shall be finished with filling effect side as face. Cloth shall be singed, desized, mercerized, dyed, & given an approved Quartel-type water repellent treatment. Spray rating: 90, 90, 80 (5526). Hydrostatic Pressure, min. avg: Initial- 35; After 3 launderings: 30 min. (5514). Dynamic absorption: Initial- 20 maks; After 15 launderings- 20 max. (5500). pH: 6.5 - 8.5 (2811).	sample available (5660- 5610-5651-5680-5600).	(7) (a) Mylon shall be semidull, high tenacity, high modulus staple, made from hexamethylene diamine and adipic acid, with a melting point of 250°(±6°)c. Use of nylon waste is prohibited. Filling effect side shall be identified by stamping "face" on that side at the and of the roll Seam efficiency: 80% (5110)	*i

Type II
Class 1
Class 2

Cloth shall be scoured, fulled, free from vegetable matter, with a uniform by dyed with indigo ly developed broadcloth finish. Cloth dye to match standard shall be pressed and have a lustrous sample of Blue 2307(3). face finish equal to that of the standard sample. When specified, cloth shall be moth repellent treated in accordance with the method specified by the contracting officer.

pH: 4.0 - 8.0.

Colorfastness - standard sample available (5660-

Colorfastness - standard sample available (5660-5622-5680-5651).

Intended Use - In service, semi-dress, and dress uniforms and functional clothing.

HOTEREICES

MIXED PIESE CLOSES - WOVEN

Textile Test Methods - CCC-T-191b

Method	Title
	Cheat cal
2050 2051 2100 2800 2810 2811	Copper content of textiles, Electrolytic method. Copper content of textiles, Polargraphic method. Wool content, acid method. Wool fiber demage, sikali solubility method. Acidity (pH), colorimetric method. Acidity (pH), potentiometric method.
	Construction
5040 5050	Weight of cloth; cut, roll or bolt aethod. Yarns per inch in woven cloth.
	Mechanical
5100 5104 5110 5132 5134 5202 5206	Strength and elongation, breaking, of woven cloth, grab method. Strength and elongation, breaking, of woven cloth, ravel strip method. Sevability: strength-of-seem method. Tearing strength, pendulum method (Elmendorf). Tearing strength, tongue method. Stiffness, directional; cantilever bending method (Tinius Olsen). Stiffness, drape and flax; cantilever bending method (Pierce formula).
	Air Permeability and Water Resistance
5450 5500 5514 5526	Air permeability, calibrated orifice method (Frazier). Water resistance, dynamic absorption. Water resistance, hydrostatic pressure, low range. Water resistance with hydrophobic finish; spray method.
	Colorfastness
5600 5610 5614 5622 5630 5632 5651 5660 5670 5680 5682	Chlorine bleaching; cloth. Laundering, cotton and/or linen; Launder-Ometer. Laundering of wool, silk, rayon cloth; Launder-Ometer. Wet cleaning (with dry cleaning). Water, cold. Salt water and scap. Crocking of cloth. Light, accelerated (Fade-Ometer). Weather; accelerated method (Twin Arc Weather-Ometer). Perspiration; perspirameter method. Perspiration; when method.

CERETAL HOUSE

COATED CLOTES

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) Width exclusive of selvage.
(3) Colorastching.
(4) Preproduction.

(5) Rid sample and laboratory report.
(6) Homfibrous, etc., restrictions.
(7) Width inclusive of selvage.
(8) Weave diagram and/or instructions.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd		Breaking Strength Lb. Min.	Strength Lb.	Hydro- static Press- ure High	(59 After Flame	Char length	Werp	gth Pignin	mide	Block- ing Scale rating
		<u>L </u>	(5041)		(5100)	(5132)	(5512)		Max "	(5204)	(DIZZ)	5970	5872
Fabrics, Upholstery CCC-F-66e, And.			Min Max		WF	WF		WF	WF 7	'O°F -40	PF		1
CCC-F-COR, AMI.	,				Yarı	ns/Inch M	in.		,	,			1
Type I- Flat Clot					W		P						J
1. Brocatelle	Warp & filling:		16.0 per 12.0 lin.	(1)	170 170		85						
2. Damask 3. Matelasse	on, nylon, polyeste		22.0 yd.		170		50 75						
4. Papestry	or any mixture ther	%-	20.0 (54		132		60						
5. Novelty cloth	of. Mylon &/or poly ester: 50% max.	-	20.0 vide	:) "	94		48						
Type II- Loop pile cloths									Pile lo	<u>ops/</u>	Break	ing	
6. Plain rib frieze	Face warp: 50%min. wool &/or mohair,	Stuffer ends on backs or coating	29.0 (un-		711e S	tuffer Gr 72	ound Fil		Inch 522		Stren 65	50	
7. Plain frieze	with the balance rayon. Stuffer,	of min. 1.8 oz. synthetic resin.	33.0 ed)	t- #	9	72	18 a				-		
8. Pattern	ground & fill:	natural or syn-	33.0 ea)			16	10 2	3	103		65	50	
frieze	cotton &/or rayon.	thetic-rubber latex/lin. yd. (54")	24.0	"	26		- 2	<u>,</u>	312		65	50	
Type III- Cut										_			
pile cloths		•							Tufts/1	n ²	Thick	ness	
9. Mohair velvet	Weave: 4-pick W mohair pile	2.5 oz. min. syn-	25.0	(1)	28	-	28 4	8	385			30	
10. Mohair velvet		thetic latex/lin. yd. (54").	19.0	*	27	-	54 3	10	405	i	.1	40	
11. Velour	Weave: 2-pick V cotton pile		22.0	n	40	-	40 3	16	560)	•0	85	
(Continued)													

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-F-66a	<u> </u>			
Type I				
1.		Color (1).		
2.		Colorfastness - "fair"		
3•		(5660, for 40 hours).		
1. 2. 3. 4.				
Type II		a a (a)		
6.	Loop pile cloths shall			
7• 8•	be guarante ed resis-			
0.	tent to moths & other			
	insects for 5 yrs. min. Moth-resistant compound			
	shall be nontoxic and			
	nonirritant.			
Type III	noniri i canci			
9.	Mohair velvets shall be	Color (1).		
10.		Cclorfastness - "fair"		
ii.	tant for 5 yrs. min.			
	Compound used shall be	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	nontoxic & nonirritant.			

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	W	reroll bight Oz/ q Yd			Tearing Strengti Lb.	static Press- ure	Reels			Burst- ing Stren- gth Ptg.	sion Ib/2	ing
			(5	041)		(5100)	(5:32)	(5512)		Max"		(5(22)	5970	5872
Fabrics, Upholstery CCC-F-66a, Amd. 3	(Cont'd)		Mia	Mex		WF	WF		WF	WF	70°F -40)*F		
Type IV- Misc.						Yar	ns/Inch							1
Cloths 12. Dobby	Pace warp: wool &/ or mohair. Back warp & fill: cotton &/or rayon.	min. 1.8 oz. of	per	(un- sted) : lin. : (54")	(1)	36	ce)							
13. Dobby (novelty)Face: 30% min. wool &/or mohair; balanc rayon. Backing: cotton &/or rayon.	,,	23.	5 "	(1)	25	9 <u>2</u> ce)(face) 19 ck)(back)							
14. Rough texture (plain or print)	100% cotton; twiste 2-pl; vat dyes	a	-	per lin. yd. (5 ^l ;")	(1)	32	32							
15. Cretonne (printed)	100% cotton; wat dy	,,	10	,	(1)	60	50							
16. Friezette	100≸ cotton		15	17	(1)	80	30							
17. Mohair satin (plain or print)	Warp: cotton. Fill- ing: 25% min. mohai or wool; balance reyon.		14	"	(1)	66	60							
18. Duck (dyed or print)	Not less than 2-ply cotton, vat dyed colors, mildew resistant & water- repellent treated.		12	м	(1)	50	40							

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-F-66a (Cont'd)	Cloths Nos. 12, 13 &	Color (1).		

Cloths Nos. 12, 13 & Color (1).

17 shall be guarantee: resistant to moths & other insects for 5
yrs. min. Moth-resistant compound shall be nontoxic & nonirritant.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd	Width	Breaking Strength Lb. Min.	Tearing Strength Lt).	Hydro- static Pr s-	Reels	me lance (03) Char	Flexi – bility Cm. Max. Warp	Burst- ing Siren- gth Pts.	sion Ib/2"	
			(5041)		(5100)	(5132)	(20012)	eec min	Max."	(5204)	(5(22)	5970	5872
Screening, Mon- metallic, Insect I-S-125, Amd. 3 ((See rlso under Synthetic Cloths) Type I- Folyvinyl idene chloride (See Synthetic Cloths)		Min Max		w F	WF		W F	WF	70°F 40	PF		
Type II- Plastic coated or impreg- nated fibrous glass Class 1- 0.0115"													
dia. Size 16x16		Compound of poly-		(1)				10			(a) -		No. 1
Size 18x14		merized or copoly-		'H'				10					*
Size 18x16 Size 18x18 Size 20x20 Size 22x22 Class 2- 0.0130" dim.		merized virgin vinyl chloride resin, placticized with phosphate or phthalate ester plasticizers exclu-		"				10 10 10 10			90 105 150 160		" "
Size 16x16 Size 18x14 Size 18x16 Size 18x18 Size 20x20 Size 22x22		sively. Pigmented.		, , (J)				10 10 10 10 10			180 180 200 250 275		No. 1

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
I-S-125 Type I Type II Class 1 Size 16x16 Size 18x14 Size 18x18 Size 20x20 Size 22x22 Class 2 Size 16x16 Size 18x14 Size 18x14 Size 10x16 Size 16x16 Size 16x16 Size 2x22		incorporated in the plastic coating. Aluminum shall fall between color Nos. 36492 and 36173 of Fed. Std. No. 595. Colorfastness = "fair" (Fed. Std. No. 141, method 6151).	(a) See specification for requirements after heat aging, accelerated weathering, and water immersion. Tensile strength of filaments: 125,000 psi (4.4.5). Elongation of filaments: 3% max. Filament slippage resistance: Class 1-2.5 lb. min.; Class 2-5.0 lb. Filamente shall remain intact after 10 sec. contact with the end of a lighted eigarette. Woven or mock selvage on each edge, of at least 6 ents/edge. Splices shall be well made, show no tails, and be 1 in. max. long. Knots are not permitted. No. of splices shall not exceed 1/sq. ft. or 15 per roll.	Intended Use - For installation in or on any dwelling, patio, screen enclosure, building, or structure, for the purpose of preventing the ingress of flies, mosquitoes, or other insects, particularly where corrosive conditions are encountered.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Campound	Overall Weight Oz/ Sq Yd (5041)	THE REAL PROPERTY.	Breaking Strength Lb. Min. (5100)	Lb.	Hydro- static Press- urs High (5512)	Resis (5)	Chor	bility Cm. Max. Werp	ing Stree- gth Ptg.	sion tb/2" wide	ing Scale reting
Wall Covering, Vinyl Costed CCC-W-40B			Min Mex		WF	WF		WF	WF	70% 40)°F		

Type I- Igt. Duty Cotton cloth, non-virgin polymer-voven fiberglass, ised or copoly-subsetce, or other suitable materials. chloride resin, plasticaed with 22.0 -

***** 50 55 25 25 " 100 95 80 50 No. 2

Class 1- Regular finish Class 2- Mildew resistant

plasticized with 22. phosphate or phthalate ester plasticizers eachusively & shall be integrally pigmented. When necessary, cloth shall be top-coated in the same manner.

Cloth, Costed
[Table and Shelf]
CCC-C-417c, Amd. 1 Cotton

Synthetic resin; 6.25 - pigmented

30 22

No. 1

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-W-408 Type I Type II Type III Class 1 Class 2	Base cloth for Class 2 shall be mildew-resistant treated (5762). Coating compound shall be applied to one side of bese cloth to form continuous film. Grain shall conform to that or standard sample.	Colorfastness (5660).	(4-5). Breaking strength after soil burial: 80% of initial (5762). Shrinkage: All types, warp- 2% max. Types I & II, fill-1% max. Type III, fill-1% max. (4.4.4). No evidence of cracking, stiffening, flaking, or separation of coating from backing at 20°F. (4.4.5). Cloth shall not become stiff or brittle, soft or tacky, discolored or show loss of grain after heat aging (5831). Crockin resistance = "good" (5651).	scuffling. Type II; only as wain- scot or lower wall protection for areas exposed to damage by move- able equipment or to abusive con- ditions such as exist in hospitals
CCC-C-417c	on one side. Coated cloth shall have glared	Color (1) = to match White No. 70001, Green 70167, Red 70042, or Yellow 70205 (3). Colorfastness = "good" (5651-5660). Red shall show "fair" in 5660.	Cloth shall show no cracking or flaking (4.3.1). Cloth shall be nontoxic to personnel.	Intended Use - For table and shelf covers.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Campound	Overall Weight Oz/ Sq Yd (5041) Min Max		Stro Lb.			Hydro- static Press- ure High (5512)	Resist (59 After Flame	Char		9th Plain (5122)	sion Ib/2" wide	Scale reting
Cloth, Coated (Rubb and Plastic) and Plastic Sheeting for Hospital Use 22-C-450b			min mox		•	ļr	Wir		wite	, wit	۰۰۱۲۰۰			
Type I- Cotton or synthetic cloth (rubber coated both sides)	Woven cotton or synthetic fiber.	Matural or synthe- tic rubber or a mixture of the two pigmented		(1)	5 0	50		25 lb. 5 mia.					7.0 min.	
Type II- Cotton or synthetic clotn (vinyl coated both sides)	"	Vinyl-chloride polymer or copolymer, plasticized; pigmen		(1)	50	50		25 1b. 5 min.					7.0 min.	
Type III- Plastic unsupported film (sheeting) Class 1- 0.004" thick Class 2- 0.006" thick	3	Film shall conform to Type I, class 2 of L-P-375, except that plasticizers other than phos- phate and pithalate may be used.		(1)			200 200 (1b/in. of thickness	esa)						
Color 1- Clear (Types II & III cnly) Color 2- Elack (All Types) Color 3- White (All Types) Color 4- Marcon (All Types)														

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
ZZ-C-450b Type I Type II Type III Type IIII Class 1 Class 2 Color 1 Color 2 Color 3 Color 4		Color (1) - to match cable number of Fed. Std. 595 or approved color standard (3).	(4) Thickness: Types I & II: 0.013-0.018 in. (5030). Cloth shall show no solvening, tackiness, hardening, peeling, or blistering when exposed to phenol. Type III shall not decrease in weight more than 4%. "Good" fastness to crocking. Same after exposure to alcohol. Type I shall show the same results when exposed to accelerated wing. Volatility: Type II- 7% max. Type III, Class 1- 7%%; Class 2-9% max. Types I & II shall show no softening, tackiness, hardening, peeling, or blistering during steam sterilization. "Good" fastness to crocking.	

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd	Width Breaking Inch Strength Lb. Min. (5190)	Lb.	Press- ure	(59 After Flame	O3) Char	bility Cm. Max. Warp	ing Stren- gth Ptg.	sion Ib/2" wide	rating
Cloth, Glass, Costed, (For Man- brane Waterproofing	1		Mia Max	WF	WF		WF	WF	70°F-40	PF		

and Built-Up Roofing

HM-C-466b

Class fiber. Thread Uniform resin

count: 10-24 yarms
per inch in both
warp and fill.

coal-tar base
compounds.

Cloth shall also be uvailable in widths from 2-55 in. in increments of 1 inch.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
нн-с-466ь	Class fiber shall be acid resisting, shall not rot or decay and shall show min. cap- illary and wicking action.		Mock or woven selvage on each side (or one of each on either) or no selvage at all. Selvages shall be 1/8 - 1/2 in. wide. Cloth shall not crack (4.4.1). Weight of dry base cloth: 1.2-2.4 oz. Weight of organicoating: ratio of coating to cloth - 0.593-1.00. Volatile matter content: 3.8% max.	Intended Use - In membrane waterproofing and built-up roofing.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd	Width Brecking Inch Strength Lb. Min. (5100)	Lb.	Hydro- atatic Press- ure After Ch High (5512)	Max. Str.	ret Adhe Slock- sion ling en-tb/2" Scale wide reting hin. 22) 5970 5872
Cloth, Tracing, Sensitized			Min Max	WF	WF	W F W F	70°F-40°F	

Types:
I- Photographic
II- Diazotype
III- Browmprint
IV- Blueprint

Subtypes:
A- Sensitized matte surface, smooth back

R- Sensitized matte surface, matte back

Sensitized Weave shall con-smooth surface, form to CCC-C-531. C- Sensitized

matte back Classes:

1. Projection, Photographic 2- Contact,

Photographic
3- Wash-off,
Photographic

4- Diazotype, Ammonia process 5- Diazotype,

Moist process Colors:

A- White cloth B- Blue cloth Styles:

1-A- Black line 1-B- Sepia line

manufacture.
Cloth shall not be damaged by normal handling. Thread count: 90 threads/inch in the warp; 85 threads/inch in the fill.

Cloth of woven, cleaned cotton and 3 cloth and Type fibers, free from III & IV cloth shall waste, knots, or other defects of anated with a cellulose dope or lacquer, or other polymer, to render base cloth water resistant and to inhibit dimensional changes caused by processing.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness,	NOTES
			Shrinkage, etc.)	(Not Specification Requirements)
DDD-C-471c		Color - A cloth shall be	Cloth shall be furnished in a	Intended Use - In the making of

not strip from cloth uniform bluish tint. III during processing. Sen-sitized cloth shall be IV free from pinholes, scratches, abrasion marks, coating streaks, spots & areas of higher Subtypes: or lower sensitivity than surrounding areas, Sensitized cloth shall Classes have a matte surface on one or both sides (1) that will be suit-able for accepting pen-5 Colors cil and ink lines, yielding solid lines without skipping, feathering, or smudging. Surface shall have suit-1-A 2-B Surface shall have suft-able erasing qualities. Curl of full processed prints of all types of cloth shall not curl more than 25 mm.

Cloth shall be furnished in a thickness or 0.0042 ±0.0002 in including coating. Thickness shall not vary ± 20% from thickness shall not vary ± 20% from thickness and tracings, and for making represents specified. Fully exposed & processed cloth shall resist chipping, flaking, and crazing (4.4.9). See specification for special instructions & requirements. All types of sensitized cloth shall be capable of producing a final reproduced copy that is clear and legible. Cloth shall have clear, even back shall have clear, even back-grounds, free from mottle, spots, or other defects which would make prints unsuitable for purpose intended.

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NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Ownall Falght Sayd	Inch	Lb. Min.	Lb.	Pressure High	After Ch	Cm. Mar Warp	ing Stren- gth Pta	sion lb/2" wide	Scale rating
Cloth, Wylon, Costed Waterproof and Flame Resistant CCC-C-00480 (GSA-F			(5041) Min Max	L	(5100) W F	W F) [(5512	WF WI		1) (5122) 10°F	5970	26/2
Type I- Light weig Class 1- Coated with chloroprene	Bright, continuous	ed chloropiene	6 <u>+</u> .25	(1)	120 120	(513½) 15 15				o rack reak	ų	
Class 2- Coated with vinyl chlo- ride polymer or copolymer resin	nylon is prohibited Plain weave. Yarns/ inch: 38 in warp & fill. Weight: 2 +	Suitable polymer or copolymer of vinyl chloride	64.25	(1)	120 120	15 15	20		0		L	
Type II- Heavy												
weight Class 1- Costed with chloroprene	Bright, continuous filament nylon. Use of regenerated ny-	ed chloroprene	15 <u>+</u> •5	(1)	225 220	45 45	40			o rack reak	4	
	lon is prohibited. Plain weave. Yarns/ inch: 22 in warp &	Suitable polymer or copolymer of vinyl chloride resin properly	15 <u>+</u> •5	(1)	225 220	45 45	40		o		4	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-C-00480 Type I Class 1 Class 2 Type III Class 1 Class 2	When flame resistant cloth is specified,	Colorfastness = "good" =(5660-5651-5630-5904).	(5804), and shall not crack. Coated surfaces shall not adhere,	& covers, & for use where extra low or high temperatures prevail Class 2: for the paking of water proof or flame resistant tarp- aulins & covers, & for use where extra low or high temperatures prevail.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overali Weight Oz/ Sq Yd (5041)	Width Breaking Inch Strength Lb. Min.	Lb.	Press- ure After Char High Flamelengt	Cm. Max. Stren-lb/2" So Warp gth wide re	g cale ting
Cloth, Coated; Pyroxylin Coated CCC-C-501b			Min Max	WF	WF	WF WF	70°F-40°F	

CCC-C-501b							
Type I- (coated on one side) Class 1- 6.3 oz.	Cloth, couton, sheeting, comforming to Type VII, Mass 1 of CCC-C-5500 to 10 that Cloth she had a dected and account of sprink-account of the sheaking at wight shall not apply.	100% virgin cell- ulose nitrate, plasticized & pigmented.	6.3	(1)	5 0	40	(5516) no leakage
Class 2- 7.7 oz.	Cloth, cotton, print conforming to Type II', !lass 1 of MIL- C O'2-3. See above for sea littions & ch	u	7•7	"	40	35	п
Class 3- 12.0 oz.	Cotton sateen, desized & socured (6). Warp flush side shall be the face. Yarns/inch: 96 in the warp 64 in the fill.		12.0	**	85	75	n
Type II- (coated on both sides) Class 1- 15.5 oz	• "	**	15.5		110	100	"

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
Type I Class 1 Class 2 Class 3 Type II	be applied to face side of base cloth only. There shall be no striking through of coating to the back of the cloth. Grain	2, unless otherwise specified, color shall be natural. When color is specified, cloth shall be dyed in accordance with CCC-C-432. Color shall match approved standard shade (3). Type I, Class 3, color shall be dyed as specified in CCC-C-432. (3). Standard	(4) Flexing resistance: no evidence of ink penetration through the coating of all Types and Classes (4,4,1). "Good" fastness to crocking in all Types & Classes (5651).	

NOMENCLATURE	Bose Cloth Specifications	Coating Compound	Overall Weight Oz/ Sq Yd	Inch	Breaking Strength Lb. Min. (5190)	S Leudin	Press- use High	Resis (59 M1'sr F'arra	Chor	bility Cm Max. Warp	ing Stren- gth Pta	sion ib/2" wide	ing Scale mting
Cloth, Coated, Window Shade			Min Max		V: F (5102)	WF		WF	WF	70°F-40	PF		
	1 Commercial window shade griege goods. Marns/inch: for	Impregnating cor- pound shall be polymerized or	4.8 -	(1)		12 10		2 2	5½ 5½	17 - 23			No. 2

widths up to 63 ine 68 in warp & fill; for widths 63 in. and over-56 in the warp, 52 in the fill.

copolymerized copolymerized vinyl chloride resin, plastici-zed with phos-phate or phtha-late ester plas-ticizers; exclusively pigmented. No starches, dex-trines or other water soluble. sizing or filling compounds, or vater soluble flame retardants shall be used.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Mot Specification Requirements)
CCC-C-57.1e	Both sides of base cloth shall be impreg-	Color - Shade shall be fur- nished in the following solid	(4) Resistance to cracking: "pass".	Intended Use - Used in the manufar ture of Window Shades in accord-

cloth shall be impres- nished in the following solid Resistance nated. When window colors or 2 color combinations(4.4.1). Shale is specified for (dark on one side & light on the reverse side)(1): Black diffuse luminous trans- mission of a single layer of cloth shall average no more than 0.001 of 1%. No area of the cloth shall transmit more than 0.003 of 1%. The cloth shall transmit more than 0.003 of 1%. The cloth shall have no ninboles shall have no pinholes or streaks.

ance with Fed. Spec. DD-S-251.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd		Brecking Strength Lb. Min.	Strength	static Press- ure	Resis (5)	cher	Flex!- bility Cm. Maa. Worp	Burst- ing Stren- gth Ptg.in.	16/2"	Block- ing Scale rating
			(5041)		(5100)	(5132)	(55:2;			(5204)	(5(22)	5970	5872
Plestic Sheet; Polysthylene, Leminated, Nylon Reinforced	a)		Min Max		Tr. F	WIF	incor russ	etre:	WF	70°F-40)°F		
L-F 00524 (GSA-FS	5)					(ASIM D)	1-in	ch ati	rip in.	543 47			
duty 50 in. x 100,	Non-woven nylon 66 (polyamide type 66)	lolyethylene bonded with els-		50		(1922-61T 100 100	3.2"		no pe	-	ሃገ		
50 in. x 100,	multifilement yarn, 100 denier, min.			5 0		100 100	3.25	i	4.50	١	7 7		
50 in. x 100,	Yarn to le arranged so that there will	_		50		100 100	4.00		7.00	•	80		
50 in. x 100, 200 yd. (Rolls)	be % yarns/lin. ft. min. in both width and length direction			50		100 100 fter tear tarted)	4.00)	7.00	1	85		
Type II- Heavy du Class 1- Without grommats Class 2- With grommets													
6x8 ft. 10x12 ft. 12x12 ft. 12x15 ft. 16x16 ft. 20x20 ft. (flat sheets)	**	High density polyethylens bonded with ela- stomeric base ad- hesive. See ASTM D2103-62T.		6 ft 10 ft 12 ft 12 ft 16 ft 20 ft		100 100 100 100 100 100 100 100 100 100 100 100 ofter tear started)	5.00 5.00 5.00 5.00 5.00 5.00		6.00 6.00 6.00 6.00 6.00)))	90 90 90 90 90 90		

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
Type I 50 in. x 100 50 in. x 100 50 in. x 100 50 in. x 100 Type II Class 1 Class 2	Material shall be a 3- ply laminate formed by bonding mylon yarn between 2 sheets of polyethylene, Each ply of polyethylene shall be 0.0015 in, min, thick. There shall be some slippage of the mylon yarn when lamin- ate is subjected to a tearing stress.	Color - Clear both sides. Black both sides. White both sides. Rlack & white reversible	Seam shear strength, 1 in. seam, room temperature, 1b. min.: Type I 12 lb.; Type II- 16 lb. (ASTM D 1683-59T). Folding endurance (1 kg tension) cycles, min.: 30 x 10 ⁻¹⁴ (UU-F-31). Type II, Class 2 sheet shall be provided with metal grommets of Type I, Class 1 of MIL-G-16491. They shall be placed 3 ft. spart & not less than ½ in. from the edge at the sheet periphery. They shall be clinched tightly & installed in prepunched holes without cutting the cloth. Force to pull out greamets: 95 lb. min., Type II. (Fed. Std. No. 406, Method 1013, procedure A).	railroad flat cars & open trail ers, as a tarpaulin, as water barrier membrane in construction operation, as pit liner during evacuation work, & as a blarket for curing highway concrete. They are used as painter's drop cloth and vehicle covers also.

HOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	0z/ 31 Yd	Stri Lb.	ongth Min.		static Press- ure High	Resist (59 After Flome	Char	bility Cm. Max. Warp	Pinin.	sion Ib/2" wide	ing Scale rating
		~~~	(041)	 $\rightarrow$	100)	(5132)	(5512)			(5204)		5970	D872
Cloth, Tracing			Min Max	W	F	WF			WF	70°F -40	°F		
CCC-C-531e			•	100			ty, %,		!	1			
Type I- For ink	Plain weave cloth.	Applied to give a		(51 65		Initial 30	After A	cc. Ag 36					
vork	Woven of cleaned yarns. Free from	clean, complete, even, and unbroken		ر	•,	50		50					
Type II- For	knots, floats, un-	surface, free from		65	45	40		48					
pencil work	sightly slubs and misweaves. Yarns/	tears, holes, pin- holes, wrinkles,											
Type III- For	inch: 90 min. in	or creases.		65	45	1:0		48				n	o cut-
	the warp; 85 min.												ing by
work (& moisture- resistant)	in the lilling.												encil; o flak-
													ng af-
													er rub-
												b:	ing.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-C-53le Type I Type II Type III	Type I: highly glazed on one side & matte on the other. Ink shall adhere uniformly to matte side, & lines drawn shall show no spreading or feathering. Matte side shall also show satisfactory erasing. Type II: high glazed on one side & matte on the other. Matte side shall have suitable "tooth" for pencil work & erasing without smudging. Type III: matte surface on one or both sides (1). Ink: lines shall lose no density where tape is applied & tape shall come off clean without removing coating. Lines shall not smear, & eras easily without damaging coating. Fencil: no smudging. Shall leave in sheat or trake of lines when erased. Typing: typed characters shall be clear & distinct, & erase easil	(1), each of a shade which will give satisfactory performance and conform to standard commercial practice.	sheets & rollc (1). No appreciable yellowing, discoloration or change in appearance of the cloth that would cause the printing time to have to be increased on the diazo or blue-printing machine after exposure to accelerated aging & ultraviolet radiation. Heat resistance; there shall be no tackiness or "ticking of the cloth. Type III: Water resistance- no	finest character, emergine which photolithographs and Preprints of the maximum legree of legibility may be made. Type II: for the preparation of fine architectural and similar type drawings in pencil, using the matte side only, and from which

OMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	Width Breaking Inch Strength Lb. Min.	Lb.	Press-	After Flome	O3) Char	Cm. Max. Warp	ing Stren- gth Ptain	sion Ib/2° wide	ing Scale rating
Cloth; Tracing, Printed CCC-C-536			Min Max	WF	WF				70°F-40	°F		

Type I- Profile cloth Plain weave cotton, Applied to profree from excessive number of imperfec-Type II- Cross tions of manufacsection cloth ture. Type III- Logarithmic cloth Type IV- Plan profile cloth

> on the same surface area without detrimental change in the character and quality of the lines or surface of the cloth.

duce even, un-broken surfaces free from pinholes and other defects. Coating should permit use of drawing ink thereon, after 1 applica-tion of Fuller's earth or similar medium, without allowing ink to penetrate cloth.

NOMENCLATURE COATING SHADE AND COLORFASTNESS OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.) (Not Specification Requirements) Highly gluzed surface Colo: (1), on one side, and dull ccc-c-536 Printing: to be done by the use Type I of rollers or plates as the case may require. Printing shall be Type II Type III finish on the other. Cloth shall have a done on glazed side of cloth. Rulings: shall be commercially standard according to type. Type IV bluish tinge, be highly transparent, and the dull side shall be capable of one complete erasure of black waterproof drawing ink lines and the redrawing of another set of lines

NOTES

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Cloth, Laminated. Cotton; Rubber or			(5041)		(5100)	(5132)	ure High (5512)	After Flame sec min	Chor length Max"		gth wide rating Pts.in. (5122) 5970 5872
Synthetic Rubber Coated, Double Texture MIL-C-67CA	<u> </u>		Min Mex	(7)	W F	w F		WF	WiF	70°F -40	
to Print co	nter cloth shall inform to Type IV, lass 2, & inner toth shall conform o Type III, Class 2 MII-C-299 (6). Experiment: 1003 max. Manganuse entent: 0.00155 max.	claimed rubber shall not be used. Base cloths shall be combined back to back with cont- ing between the			100 60	(after	80 nitial) 40 coating 40 low tentistance	gth ) mp.	(af	13.0 14.0 14.0 ter heat catment)	
to sateen Sh Out Weave 2 rt. Weight max. 3 Breaking- W 5 F 3 Yarns/in- W 7 Tearing- W 3	ter & inner cloth hall conform to: ler Inner ly1 5-harness twill fill. sateen 1,2 3.3 10 28 18 50 10 56 16 98 10 55 15 48	cloth shall be fre from coating.	ee- 11 ₀ 5	(1)	85 80	(afte	40 nitial) 20 er low to	emp.			14

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-673A Type I Type II	shall be made mildew resistant by impreg- nation with 1.35+.25%	sample shade available (2), Colorfastness = "good" (5651-5660-5610-5600-5630- 5682).	(4) Water absorption: Type I= 0.30 grams max.	Intended Use - In the manufactur of wet weather clothing.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Over Weig Oz Sq	the Yd	Width	Stre Lb.	ngth Min.	Stre	ingth .b.	Hydro- static Press- ure High	Resis (59 After Firms	O3) Chor	Flexi- bility Cm. Max. Worp	ing Stren- gth Ptain	lb/2' wide	ing Scale reting
		J	(504		L		00)		32)	(5512)	min	MOX	(5204)		597Q	PETZ
Artificial Leather Cloth, Coated, Vin Resin, (Upholstery CCC-A-700e	<u>v1</u>		Min	Max		w	F		F (36)		WļF	WF	70°F -40	)°F		
000 000					(min)			( ) -								
Class 1- 15.0	Option "a" sateen-	When treatment (b)	15.0	-	50	125	100	7	8	70					8	No. 3
oz/sq yd.	1.32 yd/1b.	is not specified:														
	Option "b" sateen- 1.21 yd/lb.	virgin vinyl chlo- ride polymer or virgin vinyl chlo-	15.0	•	54	125	100	7	8	70					8	No. 3
Class 2- 18.0	Option "a" sateen-	ride acetate co-	18.0	-	50	140	130	3	9	100					9	No. 3
oz/sq yd.	1.12 yd/lt.	polymer. Materials					-2-		_	200					,	1102
	Option "b" sateen- 1.02 yd/lb.	containing mercur- ial compounds or water soluble in-	18.0	-	54	140	130	8	9	100					8	No. 3
Class 3- 20.0	Option "a" broken	gredients shall	20.0		50	120	120	8	9	100					8	No. 3
oz/sq yd.	twill- 1.14 yd/lb.	not be used. Whor.			-										0	110. 3
, • •	Option "b" troken twill- 1.05 yd/lb.	treatment (b) is specified: coat- ing compound shall	20.0	-	54	120	120	8	9	100					8	No. 3
Class 4- 25.0	Knitted- 6.70 oz.	conform to CCC-D-	25.0	_	54	(10	100	20	20	100					8	No. 3
oz/sq yd.		950, 3.2.3.1, when inhibitor (e) is								100					5	NO. 3
Class 5- 29.0 oz/sq yd.	Chafer duck- 11.65	used. When other inhibitors listed	29.0	•	54	140	140	16	16	100					8	No. 3
on- di lo s	Change 1 11 (C	in CCC-D-950 are					-1-0	- 0	- 0							
Class 6- 40.5 oz/sq yd.	Chafer duck- 11.65	used coating com- pound shall con-	40.5	-	51	140	140	18	18	100					8	No. 3
02/8d Ag.		form to 3.2.3.1.														
Class 7- 18.0 oz/sq yd.	Knitted- 5.20 oz.	and, in addition, only phosphate or phthalate ester	18.0	-	54	80	?0	13	12	100					8	No. 3
Class 8- 10.5	Crade B aimplane	plasticizers shall	10.5		56	80	70	3.5	3.5	70					8	No. 3
oz/sq yd.	cloth= 2.05 yd/lb.	be used.	200)		,,	•	, 5	ر•ر	5.7	10					O	No. 3
(Continued)																

NOMENCLATURE	COATING	SHADE AND COLORFAST HESS	OTHER REQUIPEMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-A-700e Class 1 Class 2 Class 3	Coated cloth shall be a base cloth coated on the face side. Grain shall match approved grain std.	Color - Shall match appli- cable color number of Fed. Std. 595 or other color standard or standard sample for color specified (1-3).	(4) Abrasion resistance: no visual loose fibers of base cloth shall be exposed in the center 1 in. of the abraded portion. Accelerated	Intended Use - Classes 1 & 8: for applications where there is no great stress on the coated cloth such as for flat upholstery (sliseats and other padded applica-

Class 5 Class 6 Class 7 Class 8 (Continued)

Colorfastness - "good" (5651).

the abrasel portion. Accelerated weathering (200 hours): no appreciable failing, discoloration, exudation, development of tackiness, or stiffness. Elongation: Class 4 & 7: 5% min. in the vales; 25% min. in the courses. Cold resistance at -20° + 2°F: coating shall not crack through the base cloth (5874). Plasticizer loss (max.), activated carbon extraction: Classes 1-7 - 8%; Class 8 - 12%. 3 in.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	Inch	Breaking Strength Lb. Min. (5100)	Lb.	Press-	Resis (59 After Flame	Char	Cm. Max. Warp	ing Stren- gth	sion lb/2" wide	ing Scale rating
Artificial Leather, Cloth, Coated, Viry Resin, (Upholstery	<u>1</u>	1	Min Mex		WF	WF	-	WF	WF	70°F -40	PF		

Treatments:

a. Fire resistant (1) Regular

(2) Special

b. Mildev resistant

Base cloth or coating compound shall be treated with 1 of the inhibitors listed in CCC-D-950. When coating is treated, treatment shall be limited to inhibitor (e) (solubilized copper 8-quinolinolate). Amount of fungicide shall be based on total ave. weight of treated base cloth for base cloth treatment and on nonvolatile content of coating for coating treatment.

c. Oil resistant

after accelerated aging shall be not less than 75%. (after leaching) after loaching resistance & accelerated aging shall not be less than 75%. initial (coated).

NOMEN:LATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-A-700e (Cont'd)	Reverse side of fire			Intended Use - For use in special

CC-A-700e (Con Treatments:

(1) (2) b. c. Reverse side of fire resistant treated coated cloth may be flash coated with the same coating compound used on the face. Weight of flash coating may not exceed 0.5 oz/sq yd. and shall be exclusive of min. coating weight listed.

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Intended Use - For use in special installations (a). For use in unusually damp climates (b). For use where exposed to solvents and oil (c).

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	Widtt Inch	Breaking Strength Lb. Min. (5100)	Strangth	Press;	Resis (59 After Flame	Char lengti	Cm. Max. Warp	ing Stren- gth Pts	sion Ib/2" wide	ing Scale rating
Duck; Cotton,	-		Min Max		WF	WF		WF	WF	70°F-40	)°F		
Enameled CCC-D-741, Amd.	l Cotton duck, doubl	e- Enamel, impervi-	22 -	50	120 70				ı	34			1

ous to moisture. (50") min. lin yd

Cotton duck, double-filling (2-ply); Yarns/inch; 84(+1) in the warp; 28(+1) in the fill. Warp: singles, Fill: 2-ply.

Cloth, (Cotton Duck), Imminatel, Synthetic Rubber Impregnated, 011 Resistant MIL-C-352B

Cotton, 8.0 oz/
sq yd. min. Warp
count (unvulcanized): 50 ± 1
threads/inch; fill count: 40 + 2 threads/inch (unvulcanized).

Synthetic rubber of either of 2 classes: Class 1compounds utili-zing chloroprene as the basic mat-erial. Class 2erial. Class 2-compounds utili-zing a copolymer product of buta-diene & acrylon-itrile as the basic material.

**(**1)

NOMENCLATURE	COATING	SHADE: AND COLORFAST NESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
CCC-D-741	Coated on one side. Flexible without breaking enamel.		Fermeability: hydrostatic range- 0 - 20% in, in 10 min, Cloth shall be theroughly exided to present spontaneous combustion.	

MIL-C-882E

Form-Sheets, strips, or cut or molded items (1). See specifi-ration few applicable tolerances. Density: 67 lb/cu ft. min. See specif cation for load deflection limits and permanent set. Oil resistance: there shall be no delamination (4.4.5.2). The volume stall not swell more than 25% (4.4.5.2). There shall be no fursus growth (4.4.6).

Intended Use - For vilration attenuation.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overo Weigh Oz / Sq Yc	i inc	Lb	ength Min.	Эш	Lb.	Hydro- static Press- ure High (5512)	Resist (59 After Flores	Chor	Cm. Max. Warp	ing Stren- gth Pta Pta	sion lb/2" wide	ing Scale rating
Peulin, Waterproof, Special Purpose, 10 Feet Long by 8 Feet Wide MIL-P-1956B			Min M	ex .		F		F	<b>4</b> 2.	·	<b>l</b> '	70°F -40			
Class 1- Stitched and sealed segmes	Cotton sheeting cloth, coating quality, Type VIII, Class 1	Compound for coat- ing cloth & strap- ping material shall by synthetic rub-	-	5 <b>.</b> 0		55		20	(lot ave 30 (initial 30	)	(	lot ave.)  ll initial)  ll	( <b>i</b> ni	tial)	) No. 3
Class 2- Single stitched, laid in cement & strapped seams	of Spec. CCC- C-k32.	ber (except that use of natural rub- ber is permissible in anchor coat), plasticized & pig- mented. Feclaimed rubber shall not		5.0	65	55	25	(et.	ter low resistan 30 ter weat ometer 30 ter stre	ce) her- ) ngth	tr (af	ter heat eatment) Jl ter water eaching)	spra	r	No. 3
Class 3- Cemen- ted seams			12.5 16	5 <b>.</b> 0	65	55	25		30	,					No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
Class 3	Base cloth shall be costed on both sides with $8 \pm 1$ oz/sq yd. of coating compound. Face shall be coated with $6 \pm \frac{1}{2}$ oz. of coating compound per sq. yd. Reverse shall contain balance of coating. After vulcanization, cloth shall be free from pinholes and shall contain no more than 5 windows/lin yd.	Color - Shall be CG-207 and shall match standard sample for shade.		Intended Use - As protective coverings for signal equipment.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Over Weld Oz Sq	Yd	Inch	Lb.	Min.	L	.b.	Hydro- static Press- ure High	Resis (59 After Flores	Cher	Cm. Max. Warp	ing Stren- gth Pta Thin.	sion Ib/2" wide	ing Scale reting
Par listamore			(504 Min				(00) F	) (5)	32)	(5512)	WF		70°F-40		2810	D8/2
Bag, Waterproof, Clothing MIL-C-3108D (GL) Amd. 1			min	mų.		•	ļr	•	ļr		wlr	Mir				
										(initial	)		(0° _F	) (ir	nitial	)_
Class 1- Stitched & sealed seams	Shall be Type V, VI,			12.0		40	45/0			30			8 8.5		8	No. 2
& seared seams	VII, or VIII; Class 2; water regalient						84	gment	ing	fter low resistan	<b>∵ешр.</b> се)		8.5 er he <b>a</b> t	(after	r wate: stance	
	l & mildev resistant		7.5	12.0		40		wt.	.)	30			atment)			
shingled, laid in cement &		natural rubber is permissible								fter wea						
strapped seams	sheeting, conform-	in the anchor							•	resistan 30	ice /					
	ing to Spec. CCC-C-									fter str	ength					
Class 3- Cement-		reclaimed rub-	7.5	12.0		40	45	**	0	f coatin	g)		"		••	No. 2
ed seams	soil burial test for mildey resis-	ber is prohib- ited.							(a:	30 fter sol	vent.					
	tance is not	,							•	esistanc						
	required.									30						

Cloth, Coated, Cotton (Creped, Phenolic Resin Treate1) MIL-C-3154

Cotton sheeting (40"- 3.75- 48 x 40 grey goods)

Thermosetting phenolic resin

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-3108D Class 1 Class 2 Class 3	Coated side dusted	Color - Shall be Olive Green No. 107 (base cloth) and Olive Green No. 207 (coating).	(h) Low temperature resistance: "pass" (4.4.2). Water resistance, spray method: "pass" (4.4.5). Water resistance: "pass" (4.4.3). Strength of coating: "pass" (4.4.1). Water resistance (spray absorption method): 20% max. (4.4.14).	tected from moisture. Also as a carrying bag in conjunction with bag, sleeping, arctic & bag,
MIL=C-3154	Creped after regin treatment to increase number of picks & enis per inch not less than 15% of original con- struction of untreated cloth.		Resin content: Rools- 43 \(\delta\) 2\(\frac{1}{2}\); individual test specimens: \(\frac{1}{3}\) 5\(\frac{1}{6}\), \(\frac{1}{6}\). Volatile content: \(\frac{1}{6}\)-7\(\frac{1}{6}\) ave. \((\frac{1}{6}\)-5\).	Intended Use - In the fabrication of ogives for certain types of fuses.

STANLAND OF THE PARTY OF THE PA

NOMENCLATURIE	Base Cloth Specifications	Coaring Composite	Overall Weight Oz/ Sq Yd (5041)	Width Breaking Inch Strength Lb. Min. (5100)	Lb.	Hydro- static Press- ure High (5512)	(5903) After Cha Flamelengt	bility Cm. Max. Warp	stren-li gth	Adhe Block- sion ing 5/2" Scale ride rating
Ponton Float (18- Ton, with Emergency Kit and Carrying			idin Max	WF	WF		WF WF	70°F-40	<b>7</b> 7	

Case)
MII-P-3671, And. 1 Cotton duck. Air chamber cutting

Cotton duck. Air chamber cutting discards may be used for chafing strips, repair kit pocket, & D-ring & lifting handle patches. Air chamber cloth—Tarms/inch: 18-22 in the warp; 18-23 in the fill. Weight: 17.25 - 19.8 os. Breaking strength: 290 in warp and fill. Weave: approximately square. Pulkhead cloth—Tarms/inch: 31 in the warp; 26 in the fill. Weight: 105 os. min. Breaking strength: 185 in the verp; 125 in the fill. Weave: approximately square.

60% neopreme by volume. Balance shall be softeners, curing agents, antioxidants & reinforcing material.

NCMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinhage, etc.)	NOTES (Not Specification Requirements)
MII_P-3671		Color - Color of finished float shall be that formed n by finishing compound.	Production test model to be approved. Sosting compound- Tensile strength: 1800 psi min. Elongation: 500% min. Snall show no loss of tensile strength after 24 hours accelerated weathering.	Intended Use - As a floating support for a division floating bridge.

passed through a friction calender and gives 2 friction passes on each side. It shall then be calender-coated each side with a coat gaging between 0.010-0.012 in. for air chamber cloth & 0.008 in. for bulk-head cloth. or (b)Cloth shall be dipped in a dispersion of neoprene latex & water & run through a drier. It shall be frictioned each side & calender-coated each side & calender-coated each side with a coating gaging between 0.010-0.012 in. for air chamber cloth & 0.008 in. for bulk-head cloth.

Production test model to be approved. Soating compound-Tensile strength: 1800 psi min. Elongation: 500% min. Shall show no loss of tensile strength after 24 hours accelerated weathering. Max. loss of 10% tensile strength after 96 hours accelerated aging. Water absorption shall be held to a minimus. After fabrication, floats shall be vulcanized in a pressure-type oven or in a mold.

	NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd	Inch	Breaking Strength Lb. Min.	Strength	Hydro- static Press- ure High	Flame Resistance (5903) After Char Flameles at	Cm. Mex.	Burst- ing Stren- gth Pts.	Adho B alon Ib/2" I wide	
ı				(5041)		(5100)	(5/32)	(5512)	SOC MOX	(5204)	(5/22)	5970	872
	Cloth, Coated and Laminated, Chloro- prene on Nylon MIL-C-5302B			Min Max		WF	WF		WF WF	70°F-40	PF		
	Type I- Single	Rip-stop nylon, con- forming to Spec. MIL- C-7020, Type I, ex- cept that specified	ed chioroprene rul ber. Coating com-	- +0.35	36 +1	45 45	(5134) 2.5 2.5	50				<b>(5950)</b> 3	
	Type IA- Single ply, both sides coated		tain ingredients known to promote	4.00 ±0.25	36 ±±	55 55	2.0 1.5	SU				3	
	Type II- Double ply, laminated, one side coated		tal effect on nyle		36 ++	90 90	4.0 4.0	80				3	

NUMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-5702B Type 1 Type IA Type II	side. Type IA- coeted on both sides. Type II- 2 layers of base cloth,	Color - Types I & II- unless otherwise specified, color shall match Orange Yellow color No. 13538 of Fed. Std. No. 555. Type IA shall be Black and shall match color No. 37038 of Fed. Std. No. 595.	Finished cloth shall not crack or flake when tested at $-67^{\circ} \pm 2^{\circ}$ F. Finished cloth shall not block, become tacky, or show signs of exudation when tested at $170^{\circ} \pm 2^{\circ}$ F. (4.2.3.1 & 4.2.3.2 Flexibility- "pass" (4.2.3.3).	Intended Use - In the manufacture of anti-exposure coveralls for flying personnel.

NOMENCLATURE	Base Cloth Specifications	l'ype of Coating Compound		Inch	Breaking Strength Lb. Min. (5100)	Strength	static Press- ure High	(59 After Flome	Char	bility Cm. Max. Worp	gth	sion !b/2" wide	ing Scale rating
Cloth, Leminated an Tape, Costed Cloth, Natural Rubber on Cotton, Pneumatic Fiotation Equipment MIL-C-6819C			Min Max		WF	WF		WF	WF	70°F -40	)°F		

Variety N- Two ply laminated cloth, 11.2 oz/sq yd.

Variety 0- Two ply laminated cloth, 18.8

oz/sq yd.

which shall be visible after uniformity of

cloth conforming to Spec. MIL-C-6320 Class 1 or 2 (1). Defect shall be market with single strand thread, coating. Any def-ects shall permit coating on the spreading machine.

rubber by volume. Balance shall be softeners, curing agents, anti-ox-idants and reinidants and reinforcing materials.

Pigmented, 100%

17.4 20.2 (1) 290 290

(initial) of the pigment shall pass through a standard 325 mesh screen. Com-pounds shall not be injurious to base cloth, or contain ingredients which would bloom to the surface or adversely affect finished cloth. Compound shall cure properly & provide proofing films in-soluble in water. Tensile strength-Initial: 2400 psi

min. After heat aging: 45 max. Elongation: 500 min. (initial); 25 max.

(5102) 80 80 Plain woven cotton Min. of 80% new 10.3 12.1 (1) 80 80 cloth conforming plantation natural (initial) 76 76 (after heat aging) 76 ?6 (after Weatherometer-100 hours

> (initial) 280 280 (after heat aging) 260 260 (after Weatherometer-500 hours)

7.0 8.3 (1)

No. 2 (initial) (after heat aging) 5 (after Weather-

ometer-100 hours) 5 (initial) (after heat aging)

ometer-500 hours) 5

(after Weather-

Variety R- Coated

cloth tape, 7.7

oz/sq yd.

	a	iter heat aging.		
NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness,	NOTES
			Shrinkage, etc.)	(Not Specification Requirements)

MIL-C-68190 Variety N Variety 0 Variety R

sequence of operations, colors. so that both sides of each cloth ply shall be coated & leminated. Pigment shall be incorporated in outer-cost coatings. Cloths shall be cured. Cured laminated cloths may be lightly dusted with tale or zine stearate. tale or zin stearate.
Coated tape shall not be dusted. Tope shall have coating of high natural context rule ber stock (pure gum ruler) calenderei on coated of coated and coated or coated or coated or calenderei on coated of coated and calenderei on coated of coated and calenderei on coated or calenderei on ca one site. Coating shall not be fully curet. Protected by suitable liner. Edges of tape

shall be smooth.

Foundation compount, compatible with base cloth & coating compound shall be applied to base cloth to achieve required adhesion. 35109 Blue (smally on bias Coating compound shall ply side). Pure gum rubber coating coa tion. Rubber coating the pigmented. Opposite side shall be applied in shall match one of above

See specification for construct Intended Use - In the manufacture cloths Cloths shall not have become stiff & brittle or soft & tacky after heat aging (5850). Cloths shall not become discloths shall not become dis-colored or brittle after weather-meeter exposure (5804). Slight blowing shall be permissible in exposed Variety N. Cloths shall show no signs of cracking after show no signs of cracking after low temperature exposure (4.6.11). Cloths shall not become tarky or adhere to them alves after high temperature exposure (4.6.12). Permeability to hydrogen: Initial: B 1/m max.; after low temp: 10 1/m max.; after high temps: 10 1/m max. Fermeability to helium (same conditions): 5.0; 6.3; 6.3; 6.3. No air leakage mier pressure (4.6.13).

of pneumatic life rafts, airplane flotation equipment and similar equipment.

10.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd		Breaking Strength Lb. Min.	Strength		Rook	char charge		Burst- ing Stron- gth Ptg.is	Adho sion Ib/2" wide	Blocking Scale reting
			(5041)		(5100)	(5132)	(5512)	ooc .	Max	(5204)	\$122	5970	5872
Cloth, Coated, Synthetic and Fibrous Glass MIL-C-7514A (USA Amd. 1	F)		Min Mex		WF	W F		WF	WF	70°F-40	P		
Type I- Cloth, glass vinyl coated (non- porous)	Types I & III: continuous multi- filement glass. Type II: copolymer of vinyl chloride	Suitable compound- ed vnnyl resin, properly plastici- sed & pigmented.	+0.5	(1)	130 110	(513 ⁴ ) 3 3			2.3 2. of glow				
Type II- Cloth, vinyl resin, vinyl coated (non-porous)	and acrylonitrile. Plain (1/1) weave.	**	7.0 <u>+</u> 0.5	(1)	130 110	3 3			2.3 2. of glow				
Type III- Cloth, glass, vinyl conted (porous)	•	.#	565 ±065	(1)	180 175	5 5			2.3 2. of glo				

HOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MI-C-7514A Type II Type II Type III	Coating shall be applied to both sides of cloth, so that no bare threads show & it thoroughly impregnates the base cloth. Unless otherwise specified, coating applied to Types I & II shall be beavier on the face than on the back. Waterproofness: Types I & II shall show no signs of leskage through the unabraded portion, & no more than 5 ml. of water shall pass through the abraded portion (5516).	Color (1) - Shall be incorporated in the coating material.  Colorfastness - Type III:  "good" (5660-5651); "fair" (5651-wet).	Type III: Thread count: 35 yarns/in. in the warp; 30 yarns/in. in the warp; 30 yarns/in. in the fill. Air permeshility: 150-225 ft3/min/ft2.  All types: Coating shall not crack upon creasing in the presence of armatic hydrocarbon-fluid (4.5.3). Cloth shall be non-corrosive to aluminum (4.5.4). Abrasion resistence: 500 cycles (min) shall be required to rupture 1 thread of base cloth (5306). Color of cloth shall not change is cleaning a cleaned area shall exhibit no tackiness (4.5.9). Cloth shall not lose more than 15% of its original breaking strength a shall not crack when folded sharply upon itself or show signs of blooming or material color change after exposure to beat a light after accelerated weathering (4.5.6).	tical & sound proofing blankets

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/				Hydro- static Press-	Resis	ome tonce 903)	Flexi - bility Cm. Max.		sion Ib/2"	ing Scale
		1	Sq Yd (5041)		(5100)	(5132)	ure	Flore	Char length Max	<b>\</b>	gth Pts Min.		rating
Cloth, Coated,			Min Max	<u> </u>	WF	W F	(3312)	WF	WF	70°F-40		<b>D310</b>	50.2
MIL-C-7637B (ASC)	Yarn, with min. asbestos content of 75%. Asbestos made from commer-	Suitably compound- ed chloroprene polymer.	4.5 - 1b.	36 <u>+</u> 0∙5	215 120	(513 ⁴ ) 17 12		0 0	<b>o</b> o		260	9 b1	No ocking
Type II- Reinforced with wire	cial grade chrysottle asbestos. No filling material except organic fiber. Weight: Type I-29 ± 2 cz/sq yd; Type II-30 ± 2 cz/sq yd. Yarns/inch: Type I-20 in the warp & 10 in the fill; Type II: 14 in the warp & fill. Type II: each yarn shall have a single brass wire insert. Wire shall be drawn from alloy conforming to composition B (70% copper, 30% zinc) of Spec. QQ-W-321. Dimmeter shall be 0.008 ± 0.001 in.	•	4.75 - 1b.	36 +0.5	165 150	16 12		0 0	0 0		210	9 b1	No ocking

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-7637В Туре I Турс II	Coating shall be applied & vulcanized on both sides, approximately equal thickness on each side & sufficiently thick to insure nonfraying of asbestos cloth. Surface of coated cloth may have a slightly pebbled grain.	Color - Shall be Black & shall be an approximate match to Shade No. 514 of ANA bulletin No. 157. An inorganic powder which is applied to the surface & which can be removed by rubbing with a damp cloth shall not be cause for rejection.	Thickness: 0.060 - 0.080 in. Coating small not crack or flake off in low tamperatures (5874). Finished coating shall not crack in heat (4.6.3.2).	Intended Use - As fire seals, gaskets, uni other applications where a flexible material, highly resistant to playeted temperature and flame, is required.

NOME	NCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd		Stre		Tearing Strength Lb.	static Press- ure	Resis (59 After	tance (903) Char	Flexi- bility Cm. Max Worp	ing Stren- gth	sion Ib/2" wide	ing Scale rating
ł	i	ļ		(5041)		(51	00)	(5132)	(5512)	222	Max"		(5(22)	5970	5872
Twill Vinyl.	Coated, Cott Weave, 1 Side Resin Coated C-7642 (USAF)			Min Max		W	F	w F		WF	WF	70°F -4	0°F		
	I- Aluminum r coating	Greige undyed cotton twill, napped on one		14.0 16.0	(1)	130	90	<b>(51</b> 34) 6 6						blo	No ocking

Type I- Aluminum Greige undyed cotton color coating twill, napped on one side. Weave: 3/1 pigments.

Type II- Olive drab color coating as 1. (5134) No blocking

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
INS-C-7642		(to produce bright reflec- tance, equal to standard sample). Type II: Olive Drab (to match shade 34087	Coating shall not crack or because soft or tacky in the presence of aromatic hydrocarton (4.5.3). Min. 2000 wear cycles shall be required to wear 1/16 in, hole in ceating (5306). Coating shall not crack or break (4.5.2). Cloth shall contain no materials or impurities that would cause crazing or discoloration of transparent molded plastic sheet. Cloth shall show no signs of cracking or blooming and shall lose not more than 10% of tresking strength after accelerated weathering (4.5.5). Tolerance + 3/4" on 36" or less width. Tolerance + 14" greater than 36".	Intended Use - In the fabrication of covers for molded plastic parts such as alreraft turrets, canopies, and equipage items.

NOMENCLATURE	Base Cloth Specifications	Couring Compound	Overall Weight Oz/ Sq Yd	inca)	Lb. Min.	Lb.	Press-	Recis (55 After Flore	03)	Cm. Max. Worp	ing Stren- gth Ptg	sion tb/2" wide	ing Scale rating
Cloth, Coated, Rubber, Mylon Base MIL-C-7966A, And.	1		Min Max		WF	WF		WF	WF	70°F-40	PF		

Variety S- Spray shield cloth 3 oz/sq yd.

Variety S: rip-stop New plantation woven nylon conformatural or syning to Type I of Spec. MIL-C-7020, except that colorfastness, air permeability, & per-menence of finish requirements need not apply. Sili-come oil shall not be used on the cloth.

(grams) 3.0 (1) 50 50 450 350 (after cold effect test)

(initial)

12

1.5 No. 2

Variety P- Paulin, Bright, high tenscity cloth, 6.75 oz/ multiflament polysquide from hexamethy ene dismine and ad.pic acid or its derivatives). Weave: warp face 4/1 5-harness sateen with a counter of 3. Weight: 3.5 oz/sq yd. max. Suggested threed count: 174 x 36 or 177 x 89.

COATING

6.75 (1) 200 150 2000 1000 15 (initial 12 (after cold effect test) (after abrasion)

No. 2

# MIL-C-1966A

Variety S Variety P

NOMENCLATURE

obtain required coating adhesion. Antiporated in rubber to retard aging effects. No materials injuri-ous to cloth or which might be water soluble after vul:anization shall be used. Fillers and valcanizers shall be sufficiently fine so that a uniform product will be produced. Compound should cure properly and provide proofing films suitable for retaining water. Potability of water coming in con-tact with coating shall not be affected. r.: 6.5 - 8.0

SHADE AND COLORFASTNESS

Uniform coating of 2 Color - Base cloth: Variety or more layers of rub-S-Cloth shall be yarn or ber shall cover back of base cloth. An al-daylight fluorescent red nesive may be used to conforming to spectrophotometric requirements in the Spec. Variety P- same. oxidant may be incorporated in rubber to retard aging effects. Finished cloth: surface of rubber shall be pigmented to match lusterless (blue) color No. 35042 of Fed.

OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)

Time elapsed from date of application of coating (stamped at end of roll) and date of delivery part of spray shields for end of roll) and date of delivery part of spray shields for end of roll) and date of delivery part of spray shields for end of roll) and date of delivery part of spray shields for end of spray shields (4.7.6.1). Cloth shall not crack when folded sharply on itself, and coating shall show good colorfastness after accelerated weathering (4.7.0). Sewing qualities shall be such that quantities shall be no excessive needle gumning, needle break-age, or thread breakage during sewing (1.7.9).

NOTES (Not Specification Requirements)

NOMENCLATURE	Base Clotk Specifications	Type of Coating Compound	Overall Weight Oz/		Break Stren Lb. N	gth	Tearing Strength Lb.	Hydro- static Press-	Reels	ome itance 903)	Flexi- bility Cm. Mex.		Adhe cion lb/2	Block- ing Scale
			\$4 Yd (5041)		(510		(5132)	ure High (5512)	After Flame	Char length Max	Warp (5204)	9th P10.10 (5122)	wide 5970	reting 5672
Cloth, Costed, Rylon, Rubber Coster Fuel-Re istant HIL-C-8068B (ASG)	بة		Min Max		W		WF		WF	WF	70°F-40	O°F		
Type I- Cured Base cloth- Type II of MIL-C-7020 Gages: 0.010" 0.013" 0.017" 0.020"	Types I & III: Type II of MIL-C- 7020 except that air permeability and permanence of finish require- ments shall not apply.	Cured rubber shall not blister or crack: Original- hardness- Type I: 35 ± 5 pts; Type II: 60 ÷ 5 pts; Type III: 45 ± 5 pts. Tensile stre-		36 mir.							(eft	125 nitial) 125 er air nging) 125 er flui	-,-	n
Type II- Cured Base cloth- Table I Gages: 0.025" 0.050"	Type II: Thickness- 0.013 + 0.002 in. weight- 5.5 + 0.5 oz/yd. Breaking strength: 300 lb. in warp & fill. Tear strength: 20 lb. in warp & fill. Thread count: 90 yarns/ inch in warp & fill.	ngth- 1000 psi; 1500 psi; 1500 psi; 1200 psi; 1200 psi Elongation- 700% min; 400% min; 500 min. After air agi (change)- hardness -10% + 15% + 10% in Tensile strength: -35% -15% -30% max. Slongation: -50% -60% -60% max. After Type I fluid aging- Tensile	o∱ lng s− sex.	36 min.								500	)	n
Type III- Uncured Base cloth- Type II of MIL-C-7020 Gages: 0.012" 0.018"		strength: +20%; +25%; +10% change. Elongation: +10%; +15%; +10% max. change. Volume swell: -15%; -10%; -10% max. See spec for changes after Type III fluid aging.	;	36 min.							(afte:	125 nitial) 125 rair ing) 125 r fluid ing)	·	n

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
Type II Type III	Cloth shall be coated on both wides. Cloth shall not be injurious to any surface with which it should come into contact. It shall will free from pinholes and other defects which might adversely affect the serviceability of the finished product.	specified, color shall be Black.	Costed cloth shall not break, crack, or separate from its backing when flexed after low temperature exposure. See spec. for table of low-temperature flexibility conditioning. Rate of diffusion of Type III fuel of spec. MIL-S-3136 through cloth shall not exceed 2 fluid oz/sq ft per 24 hours.	Intended Use - As fuel metering disphragms on aeronautical equipment, or any other application where a fuel-resistant, rubber-coated cloth is necessary.

NOMENCLATURE	Sees Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	Inch	Six sing Six singth Lb. Min. (5100)	Strangth	Hydro- static Press- ure High (5512)	(59 After Flame sec min	char length Max	Flexi – bility Cm. Max. Warp (5204)		sion Ib/2" wide	rating
Cloth, Costed, Wion Tvill, Vinyl Costed Both Sides NII-C-8077	Rylon; 2/1 twill. Weight: 1.6 os. max. Thickness: 0.00½2 in. max. Breaking strength: 50 lb/in in warp and fill. Tearing strength: ¼ lb. min. in warp and fill. Ultimate elongation: 1½ in warp and fill.	Suitably compound-	3.25 +.25	36 ±±	<b>W F</b> 60 60	<b>W F</b> (5134) 2 3		<b>W</b> F	WiF	70°F -40	<b>P</b> F		

Cloth, Coated, Brion, Bung W Coated, 1 Side sur-C-8135A (USAF)

Mylon: polyamide from hexamethylene from bexamethylene dismine & adipic acid or its derivatives. Melting pt: k82° + 10°F. Weave: plain (1/1). Weight: 7.25 oz/yd max. Yarn ply: 2x2. Yarns/inch: 60 in the wrrp; 45 in the fill. Breaking strength: 325 in the warp; 275 in the fill. Tearing strength: 20 in the warp and fill.

warp and fill. Shrinkage: 2% max.

warp and fill. pH: 5.0 - 9.0

Buma N synthetic - 12.7 38 450 350 20 20 rubber.

12 No blocking

	in warp & fill.			
NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness,	NOTES
1			Shrinkage, etc.)	(Not Specification Requirements)
orr a gorra	A3 -41 1 1 1 1	0-1		

matitis on prolonged skin contact is prohibited.

Cloth shall be evenly and entirely coated on both sides. Use of determinents, dyestuffs, or other chemicals or finishing agents which would cause deterioration in storage or determinents.

Color - Unless otherwise specified, color shall be by coated cloth and the horizon of spray shields for life rafts. Cloth shall be not less than 80°. Cloth shall not flake or crack at temperatures of -65°F. Cloth shall not show tackiness, blistering, or softening after 24 hours at 160°F. Cloth shall be Flexibility: acute angle formed Intended Use - In the construction impervious to water under static head of  $20\frac{1}{2}$  in. for at least an

Intended Use - In the manufacture

MIL-C-8135A

(6) Cloth shall be evenly & entirely coated on 1 side. pH: 5.0 - 9.0 (2811).

Color - Base cloth shall be natural in color, unless otherwise specified. Color of coating shall be Black.

Thickness: 0.0155-0.0015 in. Intended Use - In the all Elongation: 35% min. in the warp; of survival containers. 30% min. in the fill. Cloth shall not crack or flake at low temperatures (4.3.2.4). Cloth shall show no tackiness, blistering, or softening at high temperatures (4.3.2.5). Cloth shall retain 95% min. of breaking strength after scalerated agging the conting shall show no signs of blocming, blistering or cracking (5804).

Cloth small show no signs of leakage through unabraded por-tion and not more than 5 ml. of water shall pass through abraded portion (4.3.2.6).

Thickness: 0.0155+0.0015 in.

142.

NOMENCLATURE	Specifications	Coating Compound	Wei 54 (50	z/ Yd	inch	Lb.	ingth Min.	Strength Lb.	Press-	After Flame	(Char	Cm. Max. Worp	Stron- gth Pts.	wide	Scale rating	I
Cloth, Asbestos, Glass, Cotton, Aluminized MII-C-8240B (USAF			Min	Max		w	F	WF		WF	WF	70°F-40	<b>P</b> F			
Type I- 9.2 oz.	Type I: 55% min.	Aluminum	и -	2	(1)	90	70	(5134) - 6							No.	

Type 1- 9.2 oz. Type 1: 555 mln.
asbestos; 18% max.
cotton; 27% min.
Type II- 10.0 oz. glass. Fill- 2ply, 1 end asbestos-cotton yarn Aluminum 12 + 2 (1) 50 95

(Underwriter's grade) & 1 end continuous-filecontinuous-fila-ment glass yarn. Type II: 53% min. asbestos; 16% max. cotton; 31% min. glass. Fill: 3-ply, 1 end asbestos cotton yarn (Under-writer's grade) & 2 ends continuous-2 ends continuousfilament glass yarn. Both Types: Warp-100% continuous-

filament glass yarns. Weave: 2/1 right twill.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIIC-8240B	Coating shall be direc	•	Cloth shall not crack at low temp-	Intended Use - In the manufactur

Type I Type II

Coating shall be direc-tly adhered to warp face of base cloth by an ad-hesive. After applica-tion, coat shall have a smooth and highly reflec-tive finish.

eratures (4.5.3.1). Flexibility: eratures (4.5.3.1). Flexibility: cloth shall snow no signs of cracking (4.5.3.2). Coating shall show no signs of separation from base cloth (4.5.3.3). Metalized coating snall not crack, flake, blister, or peel during or after preflex, exposure to the globar, or the postflex (4.5.3.4). Yarns/inch: Type I- 60 in the warp; 40 in the fill; Type II- 60 in the warp; 32 in the fill. of protective clothing used in fire fighting garments.

blocking

No blocking

ring Mades Flome Flexi - Burst-Adho

NOMENCLATURE	Base Cloth Specifications	Type of Coating Campound	Ozerali Weight Oz/ Sq Yd (5041)	Inch	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5132)		Reeis	tance (O3) Char length Max	bility Cm. Max. Warp	Pigain	sion Ib/2" wide	ing Scale rating
Cloth, Leginsted, Seteen, Rubberised MIL-C-90(4 (GL)	Cotton, 5-harness satesm conforming to NIL-C-10296. Filling effect side shall be the face.		Min   Max 23.5 <u>+</u> 1.5	(:	W F 190 140 (initial) 15% 15% loss after ec. aging max.)	· (ad	40 initial) 30 fter acc aging) 30 fter low up, resi	<b>r</b>	w F	70°F 40	t) ta) ta)	(5950) 7 initial 5 rter ac aging in. var only)	1)   cc.

Cloth, Leminsted and Coated for Waterproof Containers HIL-C-10351B (GL)

Type I- Throat cloth, 2-ply

Type I: Tylon twill, conforming to Type I of MII-C-577.

Matural or synthetic rubber or mixture of both. Figmented. Reclaimed
rubber shall not
be used.

(5102)

(1) 90 90 576 384 100
(initial) (grams) (initial)

70 70 50
(after weather-ometer) (after weather.)

80
(after low tawns.)

(after low temps.)

6 No. 1 (surface cont) (ply)

Type II- Body cloth, 2-ply

Type, II: nylon twill, comforming to Type II of MIL-C-577.

10.5 14.5 (1) 180 170 1024 640 175 (initial) (grams) (initial) 160 150 90 (after weather-ometer) (after weather.) (after low temps.)

6 No. 1 (surface coat)
6
(ply)

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
<b>итс-9</b> 074в	2 layers of sateen shall be joined back to back with rubber compound between the plies. Cloth shall then be vulcanized. No strike-through of compound to either outside surface of cloth.	suitable for complying with	(4) Both selvages shall be trimmed to give straight, uniform, fully laminated edges.	Intended Use - In the manufacture of waterproof covers for electronic equipment. Also intended for use with drafting and duplicating equipment set for packing and storing of duplicator film.
HII_C-10351B	Leminated coated cloth	Color - Base cloth: any	(4)	Intended Use - In the manufacture

Type I Type II

in this

Leminated coated cloth shall be 2-ply with rubber coating applied to both outside surfaces in equal amounts.

Cloth shall then be wilcanized.

Color - Base cloth: any color. Coated cloth:

Color - Base cloth: any color. Coated cloth:

Cloth shall not become stiff & brittle or soft & tacky after weather-ometer (5804). Coating shall not crack or flake at low temperatures (5874). Abrasion resistance: no visible loose fibers in center 1 in. of fibers in center 1 in. of abraded portion (5304). Both selvages shall be trimmed to give straight, uniform, fully laminated edges.

of Pag, Waterproof, General Purpose No. 160A.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/	Inch	Brea Stren	igth	Tearing Strangth Lb.	Hydro- static Press-	Recie		Flexi- bility Cm. Mex	ing Stren-	aion 10/2"	
			Sq Yd (5041)		(510		(5132)	wre High (5512)	Miler Flame	Char length Max	Warp (5204	9th P13.in. (5122)		reting 5872
Hattress, Pneumatic MIL-M-10747E			Min Max		<b>W</b> (510	F	WF		WF	_	70°F 4	0°F		
Class 1- Comented segms, I-beam construction	Plain weave nylon; 70 denier, multi- filmment, semi- full, in warp &	Natural or syn- thetic rubber or mixture of both. Pigmented & heat-	8.0 11.5		90	65	640 512 (grams)	No leakage			8 12		6	Ro. 1
Class 2- Molded seasy, C-beam crastruction			8.0 u.5		90 (	65	640 512 (grams)	No leakage			8 12		6	₩о. 1

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MII-C-1074TE Class 1 Class 2	lied to both sides of base cloth, & shall be distributed so that one side will have locally oz/sq yd. & the other side will have the remainder. Coat-	Color - Base cloth: white. Coated cloth: coating on heavily coated side, which is to be on the inside of the mattress, shall be colored Black throughout. Surface color of lightly coated side shall corres- pond t. Olive Green 207.	(b) Abrasion resistance: no visible loose fibers of the base cloth shall be exposed in the center 1 in. of the abraded portion (5304). No cracking, flaking, or peeling of the coating at low temperatures (5874). Cloth shall not become stifr and brittle or soft and tacky and there shall be no flaking, cracking, or peeling of coating after accelerated aging (5852).	Intended Use - In conjunction with arctic and mountain sleepin bags.

	HOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	Inch	Breaking Strength Lb. Ms. (5100)	Lb.	Press-	Resis (59 After Flame	Char	bility Cm. Max Warp	gth	sion Ib/2" wide	ing Scale rating
	Cloth, Costed, Glas Silicons Rubber-Coa			Min Max		WF	WF		WF	WF	70°F-4	)°F		
į	NIL-C-10797B (GL)		silicone rubber suitable compound		36 min.	/ E1/02 \		130 (initia 170 (after a	1) 13 13		11.5 12 (75%)(-6			No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	O'THER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-10797B	Cloth shall be coated on both sides with equal amounts of com- pound. Coated cloth cloth shall be vul- canized.	Color - Color of coated cloth shall be Olive Drab 209. Standard sample available (3).	Stiffness after heat stability:	Intended Use - In the manufacture of stovepipe snields for tentage.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight		Strength	Tearing Strength	static	Resi	isme stonce (903)	Flexi- blity Cm. Max.	Burst- ing Stren-	Adhe sion 15/2	Block- ing Scale
	İ		Oz/ Sn Yd		Lb. Min.	Lb.	Press- ure High	Afte	_			wide	reting
			(5041)		(5100)	(5132)	(5512)		Mox	(5204)	(5(22)	5\$70	5872
Cloth, Coated,	<i>,,,</i>	•	Min Max	1	WF	WF		WF	14/F	70°F-40	J.A		
Cotton, Vinyl Coated, Fire and Milder									•	•			- 1
Resistant													'
MIL-C-10799E													
Type I- Coated			709	c (1)	80 80	(5134)						j-	
cloth C <b>la</b> ss l- Plain	Plain weave cot-	Olive drab	(.0 0.	S (2.)	80 8 <b>0</b> 72 72	2 2						6	No. 2
weave 7.0-8.5 oz	ton, 43 oz.,	shades; virgin		(after	weather-	ometer)							
	MIL-C-9231 Type I.												
Class 2- Basket	Basket weave (4x4)	polymer or vir- gin vinyl chlor-	9.0.11	.0 (1)	80 80	10 10						6	No. 2
weave 9.0-11.0 oz		ide acetate co-	7.0 11		72 72	10 10						0	11(3) E
74	MIL-C-9231 Type II	. polymer. Fungi-		(after	weather-	ometer)							
Type II- Coated		cides or flame inhibitors con-											
duck		taining mercur-				(5132)							
Class 1- Army	Cotton army duck,	ial compounds	15.5 18	.5 (1)	160 110			2 2	3.5 3	.5 13 16		6	No. 3
duck, cotton,	9.85 oz., CCC-C-	or water solu-			112 77								
plied 15.5-18.5 oz	419, Type III.	ble ingredients		(after	weather-	(5134)							
Class 3- Army	Cotton army duck,	other shades: Sa		.o (1)	125 120	3 3		2 2	3.5 3	. 5		6	No. 3
duck, cotton,	8.25 oz., CCC-C-	requirements as		(1)	88 84	, ,		_	5.7	••		•	,
plied yarns,	419, Type III.	for Olive drab		(after	weather-	ometer)							
12.0-15.0 oz		shades, but only											
Class 4- Army	Cotton army duck,	phosphate & phth- late ester plast		0 (1)	210 130	5 5		2 2	3.5 3			8	No. 3
duck, cotton,	12.29 oz., CCC-C-	cizers shall be	1-10:0 21	(1)	147 91	, ,			3.00	1.7		0	no. 3
plied yarns,	419, Type III.	used when base		(after	weather-	ometer)							
18.0-21.0 oz		cloth is treated											
Class E. Armer	Cutton arms doub	with inhibitor	22 0 25	0 (2)	225 175			2 2	3,, 3			8	W- 3
Class 5- Army duck, cotton,	Cotton army duck, 14.77 oz., CCC-C-	(a) specified in CCC-D-950.	22.0 27	)•°C (I)	165 123	) <b>)</b>		2 2	3113	)•7		0	No. 3
plied yarns,	419, Type III	(6)		(after	weather-	ometer)							
22.0-25.0 oz		, ,		,									

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-10799F Type X Class A Class C Type VI Class B Class B Class B Class B	Either base cloth or coating compound shall be treated with solubilized copper-8-quinolinolate evenly dispersed, to deposit min. 0.18% copper as metal from copper-8-quinolinolate to max. 0.23% copper as metal from copper-8-quinolinolate to max. 0.23% copper as metal from copper-8-quinolinolate. Amount of funcicide shall be based on total ave. weight of treated base cloth or on non-volatine content of coating (whichever is treated). This treatement can only be used for shades other than Olive drab when supplier can, in so duing, meet requirements for color and colorfastness. If copper-8-quinolinolate is not used as innibitor, cloth prior to coating shall be treated with inhibitor (a) of CT-D-950. Back shall be coated only enough to meet requirements for vater absorption. Calender coating with preformed film not permitted.		(4-5) Rydrostatic resistance after abrasion: seepage of water shall not exceed 5 ml. through abraded portion. Unabraded portion shall show no signs of leakage. Cloth shall show no cracking, flaking, or separation of coating from cloth at low temperatures.  After immersion in aromatic fuel, cloth shall show no cracking, flaking, or separation of coating from cloth, and when subjected to static nead of 20 in, of water for 10 min., seepage shall not exceed 5 ml. Type II cloth shall show no seepage of oil through cloth. After weatherometer exposure, cloth shall show no cracking or cracking when folded sharply on itself. Color shall not be appreciably change: Type II: resistance to water absorption: 5% max. Type II, Class 1: "good" resistance to wet and dry crowling	

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NOMENCLATURE	Buse Cloth Specifications	Type of Coating Compound	Overvit Weigh: Oz/ Sq Yd (5041)	Inck		igth Min.		static Frees- ure High	Resis (59 After Flore	length	bility Cm. Max. Warp	ing Stren- gth Pts inin	sion 15/2" wide	Scrie rating
			Min Me		W		(5132) W F	(3512)			70°F-40		<b>1</b> 310	POIL
Pouch, Rumen Remai	First duck, 7.26 or. conforming to Type II of CCC-C-443, except that it shall contain no more than 35 starch and protein content including chloroform-soluble and water-soluble materials. Mildew resistant treated with Class D treatment, using inhibitor "e" or "g" of CCC-D-950. PH: 5.5 - 8.5	Formulated from virgin vinyl chlo- ride polymer or virgin vinyl chlo-	20 23	•	110 7	70 1	1280 1600 (grams)( art		) temp			(i:	6 nitial 5.5 er boi	

Cloth, Laminated:
Cotton, Balloon,
3 Ply, Air Retaining Chloroprene
MIL-C-11390C (GL)Balloon cotton cloth conforming to Type HH of MIL-C-12318, except copper content:
0.003% max; and manganese content:
0.0015 msx.

Compound shall con- 18.5 ± 1 39 80 75
tain chloroprene rubber. No natural rubber shall be used.
Up to 20% of other
elastomers (such as SER) may be added
to frailitate processing. Use of
reclaimed rubber
prohibited.

(5102)

4.5 (1b/in)

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MII_P-10808C		Color - Coated cloth shall be Olive Green 207. Standard sample available.	(4)	Intended Use - In the transport and burial of human remains in the field.
MTL=C-11390C	Cloth shall be coated on both sides & shall be laminatel. Sections of biased cloth shall overlap 3/4 in. Coated and laminated cloth shall be fully vulcanized. It shall be dusted on both sides with whiting, tale, or other finely divided mineral material which does not support mildew growth.		(4) Fermeability: 6.0 L./sq. M. (max) in 24 hours (5640). Cloth shall not become stiff or brittle or soft and tacky or show other signs of improper vulcanization after accelerated weathering (4.4.3).	Intended Use - In the fatrication decay targets and as an air retaining repair material for pneumatic targets. It is a component of SC 1080-93-0L-Pol, Repair Equipment, Pneumatic Target.

Base Cloth Specifications	Type of Coating Compound	Weight Gz/ Sq Yd (5041)	Inch Strength Lb. Min. (5100)	Strength Lb. (5132)	static Press- ure High	Resisto (590 Mter Flores	nce bility (3) Cm. Max Warp	ing Stren-I gth Pthin	b/2° vide	Scale reting
<u>yl</u> <u>cal</u> . 1		Min Max	w F	WF		WF	V F 70°F -4	0°F		
conforming to MIL-C- 56% except that length of roll, len- gth of cut, & com-	butyl rubber. No natural rubber, reclaimed rubber, or synthetic rubber	11.0 13.5	(!niti <b>al</b> ) 60 60	er- (afte of	120 r streng coat.) 120	th	9		5•5	No. 2
content: 0.0015% max. Class 2 shall be mil- dew proofed by appli- cation of 2,2° Methyl ene-bis (4 chloro- phenol) to effect a deposition of the in- hibitor on the cloth	-	8.6 10.0	(initial) 60 60	r= (after	120 strengt oat.) 110	h	8		5.0	No. 2
	Type I: mercerized cotton airplane cloth conforming to MIL-C-56% except that length of roll, length of cut, & compatibility with dope shall not apply and cloth shall be singed. Copper content: 0.003% max. Manganese content: 0.0015% max. Class 2 shall be mildew proofed by application of 2,2° Methyl eng-bis (4 chlorophenol) to effect a deposition of the inhibitor on the cloth of 1.35 • 0.25% based	Type I: mercerized cotton airplane cloth conforming to MILC-56% except that length of roll, length of cut, & compatibility with dope shall not apply and cloth shall be singed. Copper content: 0.003% max. Manganese content: 0.0015% max. Class 2 shall be mildew proofed by application of 2,2 Methylene-bis (4 chlorophenol) to effect a deposition of the inhibitor on the cloth of 1.35 _ 0.25% based	Specifications  Coating Compound  (52/ Sq Yd  (5041)  Min Max  Type I: mercerized cotton airplane cloth buyl rubber. conforming to MIL-C- 56% except that length of roll, length of cut, & compatibility with dope shall not apply and cloth shall be singed. Copper content:  0.003% max. Manganese content: 0.0015% max. Class 2 shall be mildew proofed by application of 2,2° Methylenebilitor on the cloth of 1.35 _ 0.25% based	Specifications  Coating Compound  Weight Cz/ Sq Yd  (5041)  Type I: mercerized cotton airplane cloth butyl rubber. conforming to MIL-C- 56% except that length of roll, length of cut, & compatibility with dope shall not apply and cloth shall be singed. Copper content: 0.003% max. Manganese content: 0.0015% max. Class 2 shall be mildew proofed by application of 2,2° Methyleneblic on the cloth of 1.35 - 0.25% based  Coating Compound  Weight Cz/ Sq Yd  (5041)  (1) 80 80  (1nitial) (after weathed ometer)  (after weathed ometer)	Specifications  Coating Compound  Weight Cz/ Sq Yd  (5041)  (5100)  (5132)  Min Max  W F W F  Type I: mercerized cotton airplane cloth butyl rubber. conforming to MIL-C-56% except that length of roll, length of cut, & compatibility with dope shall not apply and cloth shall be singed. Copper content:  0.003% max. Manganese content: 0.0015% max. Class 2 shall be mildew proofed by application of 2,2° Methylene-bis (4 chlorophenol) to effect a deposition of the in-hibitor on the cloth of 1.35 - 0.25% based	Specifications  Coating Compound  Weight Cg/ Sq Yd  (5041)  (5100)  (5132)  Type I: mercerized cotton airplane cloth butyl rubber. conforming to MIL-C- 56% except that length of roll, length of cut, & compatibility with dope shall not apply and cloth shall be singed. Cloth shall be singed. Copper content:  0.003% max. Manganese content: 0.003% max. Manganese content: 0.003% max. Manganese content: 0.0015% max. Class 2 shall be milder proofed by application of 2,2° Methylene-bits (4 chlorophenol) to effect a deposition of the inhibitor on the cloth of 1.35 0.25% based	Specifications  Type of Cating Compound    Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Compound   Cating Cati	Base Coth Specifications  Cating Compound  Cating Compoun	Base Cloth Specifications  Type of Cating Campound  Cating Campound  Type I: mercerized cotton airplane cloth conforming to MII-C-5646 except that length of roll, length of roll, length of cut, & compatibility with dope shall be singled. Copper content: 0.0015% max. Manganese content:	Specifications  Type of Cating Compound

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-12189 Type I Class I Class 2 (Continued)	all be applied both sides of cloth, after which cloth shall be filly vulcanized. One side shall have 65-75% of conting; the other side shall have the balance. Clated	sample. Standard sample available for shade.	arent: - minutes min.: Initial- Mustard H: Class 1-100;	Intended Use - In the fabrication of impermeable clothing affording protection against texicological agents. Class 2, which affords less protection against penetration of texicological agents, is for the fabrication of items assembled with unstrapped sewed seams.

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NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overali Weight Oz/ Eq Yd	Inck		Tearing Strength Lb. (5132)	static Press- ure	Flame	unce	bility Cm. Max.	gth Pthin	sion jb/2" wide	Scale rating
Cloth, Coated: Buty Coated, Toxicologic Agents Protective MIL-C-12189, And. (Cont'd)	<u> </u>		Min Max	. <u>.</u>	W F	WF		WF	WF	70°F -40	تنسخا		,
sheeting Class 1- Coated both sides	Cotton sheeting conforming to Type VI, Class 2, coating quality, of CCC-C-432, except cloth shall be undyed.	butyl rubber. No	<b>13.</b> 5 16 <b>.</b> 0	(ir (after	nitial) 40 35 weather- eter)	(after	80 nitial) 60 strengt coat) 60 ld cracl			9•5		5•5	No. 2
Class 2- Coated one side  Type III- Nylon	Cotton sheeting conforming to Type VI, Class 2, costing quality, mildev resistant of CCC-C-432.		9-0 H•0	(ir (after	nitial) 40 35 weather- ater)	(after	80 nitial) 60 strengt coat) 60 ld crack			8.5		5•`	No. 2
twill Class 1- Coated both sides	Nylon twill conforming Type I of MIL-C-577. Cloth shall be heat set.		8.5 п.0	(1r	nitial) 65 65 weather- er)	(after	150 initial 120 strengt coat) 120 ld crack	.h		7•5		4.0	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-12189 (Cont' Type II Class 1 Class 2 Type III Class 1	d)Class 1- Compound shall be applied to both sides of cloth, after which cloth shall be fully vulcanized. One side shall have 65-75% of coating; the other side shall have the balance. Coated cloth shall be dusted on both sides with whiting, talc. or other finely divided mineral material which does not support miled we growth. Class 2-Compound shall be side inly. Coated cloth shall then be fully vulcanized. There shall be no strik withough of the classifier to the uncoated side. Conted cloth shall be instelled to be side in the coated side. Conted cloth shall be instelled to be side in the coated side. Conted cloth shall be instelled to be side in the coated side. Conted cloth shall be instelled the shall be instelled the shall be instelled the shall be instelled with less in support milion species.	be undyed. Type II, Class 2 shall be dyed to match OG- 107 (3). Coated cloth: All types and classes shall match OD-177 (3). Standard sample available. Colorfastness: After weatherometer and decontamination (from toxicological agents), coated cloth shall not be changed in color where compared to an unexposed speciment of the same sample.	(4-5) Abrasion resistance: no loose fibers shall be exposed in the abraded portion (5302). Solvent resistance: cloth shall not become stiff and crittle or soft and tasky or show other signs of improper vulcanization. Resistance to toxicological agents- minutes min.: Initial-Mustard H: Type II, Class 1- 100; Class 2- 30; Type III- 100. GB: Type II, Class 1- 209; Class 2- 30; Type III- 200. After weatheruneter- Mustard H: Type II, Class 1- 75; Class 2- 30; Type III- 75. GB: Type II, Class 1- 150; Class 2- 30; Type III- 150. After decontamination- Mustard H: Type II, Class 1- 75; Class 2- 30; Type III- 75. GB: Type II, Class 1- 150; Class 2- 30; Type III- 75. GB: Type II, Class 1- 150; Class 2- 30; Type III- 75. GB: Type II, Class 1- 150; Class 2- 30; Type III- 75. GB: Type III- 150. Coatel class shall be essentially odorless.	

	Cloth Type of Coating Compoun	Overall Weight O2/ Sq Yd	Width Breaking Inch Strength Lb. Min. (5100)	Lb.	Press-	Mter Flore	O3) Char length	bility Cm. Max. Warp	gth Pthin	sion Ib/2" wide	Scale rating
Cloth; Coated, Butyl Rubber MIL-C-13621 (CmlC)Single pl evenly we or nylon.	oven silk (GR-I). No nat-	Min Mox - 3.2 (exclusive of weight of tale)	W F  10 10  ve (initial)(	W F (grams) 150 150 initial) 100 100 aging) 150 150	No leakage up to 20 psi.	WF		70°F 40			

Cloth, Cotton, Laminated, Waterproof and Ganoline-and-Greage-Fesistant MIL-C-13,95 (ORD)

One layer -8 in, No. 3 cetton duck conforming to Type I of CCC-D-(71. One layer cotton sheeting conforming to Class A of CCC-S-291.

Synthetic rulber 28.5 30.0 -7 200 220 40 40 No adhesive compound min. leakage having no adverse effect on action. greige with 1% shrink. in treatment)

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NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements
MII-0-13621	Same amount of com- pount shall be applied to both sides of base floth. Surface of coated cloth shall be smooth, uniform, and free of treaks, bli- ters, wrinkle, = les, to me melvage or immage.	color (1).	Thirkness: 0.003 - 0.005 in. Liquid mustard resistance: Initial - 10 min.; after acc. aging - 10 min. (min.); after decontamination - 10 min. (min.) Coated cloth shall be essentially odorless. Coated cloth shall not be tacky before or after agin; and decontamination. Pesistance to other vesicant agent: (1).	Intended Use - As a diaphragm material in optical gas mask diaphragm angletutes.
(-n-13635	liei at min. rate f r or/sq vi of laminatei lott. Ammunt f al- her .e in ex est f m n call not cause max. permissible weight	(solid color) of MIL-D-304.	(a)Water permeability: After high temperature exposize-no leakage up to %0 poi (~.4. %."). After soaking in gasoline: no leakage up to 80 poi (4.4. %.). Resistance to great talhest e strength shall be 1 lt. min. (4.4.10).	Intended Use - In fabricating velopes and covers for projection of ordnance material in under-water fording and landing operations.

NOMENCLATURE	Social Clath Specifications	Type of Coating Compound	Overall Wolght Oz/ Sq Yu (5041)		Breaking Strength Lib. Min. (5100)	Tearing Strength Lb. (5132)	Hydro- static Prese- ure High (5512)	bility ing Cm. Max. Str	wide	ing Scale rating
Mel; For Clothing Equipme, and Tent- sgs, (General Use)	•		Min Man		WF	WF	w F  w F	70°F-40°F		

(GL)

Types: I- Label, cloth, coated, printed

n, Cotton, print, ent bleeched white. I Yerns/Inch: 80 in the warp; 72 in the fill.

Synthetic rubber or resin. Pigmented.

3.6 4.8 (Sens as Type II)

No. 2

No. 2

II- Label, cloth Same as Type I. cotton, permanent Shall also be mil-coated, mildew resistant treated with 1.35 + 0.25% 2,2' metdew resistant treated with 1.35 + 0.25% 2,2' met-hylene bis (4-chlorophenol) by weight, applied either to base cloth or cost-ing or both.

Synthetic rubber 3.6 4.8 or resin. Pigmented.

A 10% + tolerance over the max. wgt. will be allowed for will be allowed for the Type I or II, Classes 3, 7 and 11 labels, because of the additional coat-ing or impregnating required after printing.

IOMENCLATURE COATING SHADE AND COLORFASTN	(Such as thickness,	MOTES (Not Specification Requirements)
-------------------------------------------	---------------------	----------------------------------------

Type I Type II

impregnated c. sur-face coated. Printed surface of Classes 3 & 7 instruction labels & Class 11 identification label shall be impregnated or surface coated with the finishing compound after printing. Following mat-erials shall not be used in the coating or impregnating formulations: Thermoformulations: Thermo-plastic polyvinyl butyral resin, proteins and their derivatives, starch, hyrophilic oils and resins, rosin, sulfur compounds. Finished labels shall be free from objectionable odor and shall have a relatively smouth surface.

Types I & II shall be Color - Color of finished labels shall be bleached

Colorfastness - See spec. for colorfastness of printing requirements.

Unless otherwise specified, the labels and markings shall be equal to the standard sample in equal to the standard sample in respect to legibility, quality or printing, durability of finish, and, where applicable, in the ability to accept writing. Labels shall be printed with a black marking medium. The initial printing shall be legible and shall not show off-setting, smearing or bleeding. All small not snow off-setting, smearing, or bleeding. All classes of labels shall be printed with Gothic, sansserif type. Italic or script type shall not be used. All printing shall be in capitals except instruction labels as specified in spec. See spec. for contents, size of characters of inscription, and format of labels.

Intended Use - In items of clothing, tentage, equipage, and related items as specified for the applicable class.

NOMENCLATURE Bose Clo Specificati		Overali Weight Oz/ Sq Yd (5041)			Tearing Strength Lb.		Recist (59 After Flame		Flexi- bility Cm. Max. Warp (5204)	gth Pthin	sion Ib/2" wide	reting
Cloth, Coated, Bylon, Polyvinyl Butyral  MII-C-14366B  Warp yarn: se 40-2 denier, ment nylon. 6 turns 'Z". Fi yarn: bright, demiar, 32-34 ment nylon. 2 turns "Z". Us relaxed filli yarn is manda to minimize p taper barre. 2/1 right tw Each selvage have 34-4 end veaving 2 as Weight: 1.5-0 oz/sq yd. Yar in:: 116 in t warp; 76 in t fill. Breakin strength: 50 min. in the w and fill. Shr age: 2* max. the warp; 1* in the fill. set prior to ing. Dyed wit special nylon dyes or other that will she more striatic finished coat cloth than st sample, (6) nore 50-8.	13 fila-  -8 virgin poly-  -8 vinyl butyral,   plasticized wit   70+3 plasticized wit   plasticized wit   phosphate or pt   thalate ester   plasticizers exculsively.   pigmented.   pigmen	- 3.5	(1) All selva shall trimm from coate cloth	W F 50 50 ges be ed	W F 30 30 (ac)	40 (initial 20 fter str f coatin 30 after was immersio 30 rter low resistar Pass fter abr	w F	WF	70°F 40 6 7	) ^O F) (1) (Af	6 nitimal 4 ter was	No. 2

	pn; 3.0 - 0.5			
NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-14366B	Coated on reverse side of cloth only, then thermoset. There shall be no strike through of coating to face of cloth. Coated side shall have uniform finish and be dusted with powdered mica not coarser than 160 mesh. Reverse side of cloth shall be the side with twill line running from right to left.	Color - Base cloth; Color shall be such that after coating, finished coated cloth shall match stanlard shade sample on the uncoated side (shade Taupe 179 or Blue 1.57, as specified)(3). Coated cloth: face side shall match standard sample in luster and color (Taupe shade 1.79 or Blue shade 1.57, as specified)(3). Colorfastness - standard sample available (5660-5614).	(4-5) Water wicking: \(\frac{1}{4}\) in. max. (4.4.10).	Intended Use - In the manufacture of the Raincoat, Men's Lightweight Taupe 179 and Blue 1157.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yc (5041)	Width Breaking Inch Strength Lt. Min. (5100)		Press-	Flame (5903) After Char Flame lengt sec Hax	bility in Com. Max. S Warp g	Burst- Adhe Block- ng sion ing stren- lb/2" Scale th wide rating thin. 5122) 5970 5872
Cloth, Coated, Polychloroprene: (For Pneumatic Floating Equipment) MIL-C-14505B			Min Max	·		Coating (mils a	Thickness min.) Side B	Permeabili	lty
Class 3- Single ply cloth 11.5 oz	High tenacity, improved heat & light resistant, heat set and scoured nylon cloth, Cloth shell be impregnated with a trimer	compound shall contain not less than 60% by volume of chloroprene. Compound shall con- tain no materials injurious to nylon, which will result	. (a.		8 8	3.3	3.3	•	W F 8 8 (initial) 60% 60% er water resistance
ply cloth 31.0 oz		in a waxy finish, or which are water- soluble. See spec.		350 335 (initial) 85% 85% (after oven agin 85% 85% ter acc. weather	0,	6.0	6.0	3.0 ( <b>a</b> fte	20 20 (initial) 60% 60% er water resistance
Class 6- Single ply cloth 44.0 oz (Continued)	п	•	_	400 400 (initial) 85% 85% (after oven agin 85% 85% ter acc. weather		10.0	10.0	2.0 (afte	40 40 (initial) 60% 60% er water resistance

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-14505B Class 3 Class 4 Class 6 (Continued)	shall be coated. Thickness of coating is exclusive of thick-		No cracking or flaking at low temperatures (5874). Forosity: Classes 4 and 6- no leaks (ASTM D751, method B).	Intended Use - In the fabrication of pneumatic flotation equipment.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	(510)	th Strength n. Lb.	Press- ure	Flome Resistance (5903) After Char Flomelength sec min Max	PI	sion ing
Cloth, Coated, Folychloroprene: (For Pneumatic Floating Equipment) MIL-C-14505B (Cont'd)			Min Ma	k ₩ F	•	(mils		Permeability	
Class 7- Single ply cloth 60.0 oz	See p. 15% for base cloth requirements.	See p. 154 for coating compound requirements.	- 60.0	650 65 (initia 85% 65 (after oven 85% 85 (after acc. we	0 70 70 1) % aging)	Side A 16.0	Side B 16.0	(	W F 40 40 initial) 60% 60% tter resistance)
Class 10- Pile cloth 40.5 oz.			- 40.9	5 100 19 (initia 85% 85 (after oxyge aging)	1) % n bomb	11.0	11.0	(1	10 10 nitial) 60% 60% ter resistance)
Class 11- Single ply cloth 14.0 oz			- 14.6	225 18 (initia 85% 85 (after oven 85% 85 (after acc. ve	1) % aging)	3-5	3•5	(1	12 12 .mitial) 60% 60% .tter resistance)

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-14505B (Cont.d) Class 7 Class 10 Class 11	See p. 154 for coating requirements.	requirements.	No cracking or flaking at low temperature (5874). Porosity: Classes 7, 10 and 11- no leaks (ASTM D751, Method B).	Intended Use - In the fabrication of pneumatic floating equipment.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd	Inch	Breaking Strength Lb. Min. (5100)	Lb.	Press- ure	Resis (59 After Flora	tance (03) Char length Max	Cm. Max. Werp	ing Stren- gth	sion 1b/2" wide	ing Scale rating
Tape, Coated-Cloth, Polychloroprene			Min Max		WF	WF				70°F-40	)*F		

MHI-T-14517 (CE) Balloon cloth confor- Polychloroprene 6.22 6.88 1ming to MHL-C-12318 spread compound & 5/8
Type HH. Cloth shall
be milder resistant. Fungitoxic compound shall be compatible with cloth and coat-ing. No copper fungitoxic compound shall be used.

shall contain not less than 60% (by volume) of chlor-oprene. They shall snall be compounded to vulcanize or cure by migration of accelerator from or accelerator in polychloroprene cement conforming to MIL-C-5540, Type II. Spread compound shall have min. tensile psi and min. ul-timate elongation of 30%. Loss of tensile strength shall not exceed 10% after acc.

be compatible.
. Uncursi compound aging & after acc. weathering.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-T-14517	Balloon cloth shall be spread coated with		Tape shall be rolled with an interliner of holland cloth to	Interded Use - In the seams of air-retaining cloth conforming

polychloroprene spread compound on both sides then cured. One side shall then be spread coated with uncured polychloroprene com-pound. Not less than pound. Not less than
3 spreader coats/oz/
sq yd of polychloroprene compound shall
be applied. A binder
coat may be included
between the cured & uncured coats of poly-chloroprene comport. 1. Curing with soapstone shall not be permitted. Tape shall not be overcured.

A STATE OF THE PARTY OF THE PAR

prevent will solve to be ween cured & uncured polychloroprene surfaces. Ingredients such as scapstone, cement conforming to Type II of talc, paraffin, or similar materials which will immediately or latently affect the strength and adhesion of the tape shall not be imbedded in the surface of the balloon cloth.

1b/1"

NOMENCLATURE	Base Cloth Specifications	Type of Coating Campound	Overall Weight Oz/ Sq Yd (5041)	Inch S	Strength Lb. Min. (5100)	Tearing Strength Lb. (5132)	Hydro- static Press- ure High (5512)	(59 After Flome sec min	Char length Max	(5204)	016 012 (5122)	wide	Mock- ing Scale rating 5872
Cloth, Coated, Fire Resistant, Berth and Bedding Cover MIL-C-15104C (SHI Amd. 1			Min Mex	1	<b>W</b>  F	W F		WF	WF	70°F-40	PF .		
Type I-Submarine berths	Flame and mildew resistant cotton.	Moninfla mable. Shall render finished cloth soft & pliable, shall be nonirritating to the skin, and shall not produce toxic products of combustion.	24 26	±} (1 7	140 129 initial) 75% 75% Per aging	;)		2 2 (afte: 2 2	ial) 3 3 r wate 3 3	r extract	ion)	4	No. 2
Type II- Bedding covers		"	14 18	5 ¹ 4 (1	35 100 initial) 5% 75% er aging	;)	No leakage up to 100 psi	2 2 (after 2 2	ial) 3 3 r wate: 3 3	r extract	ion)	•	No. 2

NOMENCLATURE	COATING	SHADE AND COLUMNAS I NESS	(Such as thickness, Shrinkage, etc.)	(Not Specification Requirements)
MIL-C-15104C Type I Type II	equal that of standard sample. Texture shall be like that of smooth		Coating shall not crack at low temperatures (4.4.4). Coating shall not be visibly affected by salt water (4.4.5). Cloth shall show no discoloration or embrittle ment in light aging (5660). Mildew resistance: after water extraction and scrubbing, there shall be no mildew growth. Breaking strength shall not decrease more than 15%. There shall be no evidence of blooming, mottling, or discoloration after hent aging. Volatility: loss of weight of coated cloth not to exceed 8%. Flasticizer extraction not to exceed 10% of weight of coated cloth. Flexibility: Type I soft and pliable for handling and sewing. Shall not rack after heat & light. Type II: Coating shall not crack down to base cloth (4.4.1). Type I; Abrarion resistance - pattern of coating shall not te obliterated after 5000 double rubs. Abraded specimen shall show no leakage. Resistance to gasoline and oil.	

NOMENCLATURE	Base Cloth Specifications	Type of Coeting Compound	Overall Weight Oz/ Sq Yd (5041)		Breaking Strength Lb. Min.	Tearing Strength Lb.	Hydro- static Press- ure High (5512)	Mosis (59 After Flame	longth			sion 16/2" wide	Scale
Cloth, Coated, and Webbing, hafletable			Min Mex		WF	WF		WF	WF	70°F-40	)°F		
Boat and Miscelland Use MiL-C-17415E (SHI Amd. 1													
Type I- 5.0 or.	High tenacity, improved heat a light resistant mylon. Heat set and cured. Breaking strength: warp-No; fill-No. Weight: 1.00 oz. (mx). pN: 5 - 8.	Synthetic rubber: 60-75% polymer- ized chloroprene. Tensile strength: 1800 psi (min.) Elongetion: 500% min. No materials which would result in a waxy finish ob water soluble shall be used.		(1)	50 50	(5134)		Permea (L. m	bility ax.)		<b>(</b> m	in.) 5	No. 2
Type II Class A- 8.5 oc.	Mylon (see above).	After being cured and exposed to acc.	.8.0 9.0	(1)			100					5	No. 2
Class B- 6.8 oz.	Weight: 2.5 oz max. Bracking strength:	light shall retain min. 75% tensile	6.3 7.8	(1)	180 165	8 8	100					5	No. 2
Class C-20.5 oz.	W-150; F-140.	strength.	19 22	(1)			100					5	No.
Type III- 7.6 oz.	Cotton. Singed. Weight: 2.10 oz. max. Breaking strength: warp & fill: 40. pH: 6.5 - 7.6.		7.2 8.0	(1)			100					5	No. 2
	Weight: 4.5 oz max. Breaking streng- th: W & F: 80. pH: 6.5 - 7.6.	rubber. See physical & material requirements of synthetic.							.8			5	No. 2
Class B-10.0 oz	<u>"</u>	Synthetic.	9.5 10.9	5 (1) T				11	<u>.</u> 8			5	No. 2
NOMENCLATURE	COATING	SHADE AND COLO	ORFASTNE	.93	(Suc	R REQUIR h as thic nkage, et	kness,	3	(Not	N Specifica	OTES	quiren	nents)
MII-C-17415E Type I Type II Class A Class B Class C Type III Type IV Class A Class A Class B (Continued)	Base cloth may be tr ted before coating w an adhesive compound a dip treatment to is sure adhesion of coa ing compound if desi Coatings shall be ap ied by spreader or coander processes.	or unless otherwine color shall be naturally evoluted, result of composition in gredients. To	ated cloth se specific that whice wes as a bounding ype II, shall be	led,	Coating shad tacky ing. Loss shall not coated wif 10% for cl thetic ruber coawhen bent weathering of loss of (5804). Cl at low ten	after accin tensile exceed 15th natural loths coate ber (5852 tring shall after acc ( (see spe ' tensile loth shall	rittle of celerate le stren 5% for celerate de with 12). Synt 11 not celerate celerate celerate to not cr	r soft d ag- gth loths of syn- hetic rack d ttable	Inten- flata	ded Use - ble boats	In fin:	ished cesso	in- ries.

1101151101 171105	Base Cloth	Two of	Ownell	1417.414	Breaking	Toerine	Lhudro-	Flome	Flexi-	Burst-	Adhe	Bleck-
NOMENCLATURE	Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd		Strength Lb. Min.		Hydro- static Press- ure	(5903) After Chor	bility Cm. Max. Werp	ing Siran- giù	sion 15/2" wide	
			(5041)		(5100)	(5132)	High (5512)	Flamelength	(5204)	(C) 22	8470	5072
Clash Control and			Min Max		WF	WF	10012	WF WF	70°F 40		2010	==
Cloth, Coated, and Webbing, Inflatable					- 1.	- 1		-1-1	- 1	2:		1
Boat and Miscellane Use (Cont'd)	ous											
MIL-C-17415E (SHI	PS)											
Amd. 1						(5134)		Permeability			min.	STALL STATES
Type V- 23.4 oz.	Nylon (see p. 158). Weight: 5.4 oz max. Breaking strength: Warp & Fill: 300.	Synthetic (see p. 158).	22,2 24,6	(1)	360 360	25 25		(L. mex.)				No. 2
Type VI-21.5 oz.	Nylon: 2 nylon cl- oths joined 21-3" apart by 30 pile yerns/in2 min.	•	18.5 20.5	5 (1)	110 180	7 13		2.0			.8	No. 2
	W: 2-ply, 70 den. F: singles, 210 den. Pile W: 2-ply, 70 den. or singles, 210 den. Weight:	•							رام به خانجیشین			
	8.50 oz max.											
Type VI1												
Class A- 30.0 oz	Cotton (see p. 158). Weight: 7.50. Break		28.5 31.5	(1)	165 160	4 4		2.0			10	No. 2
Class B- 32.0 oz	ing strength: 150-		28.5 35.0	(1)	165 160	4 4		2.0			15	No. 2
Type VIII												
Class A- 5.5 oz.	Nylon (see Type I)	Natural (see p. 158).	6.2 6.8	3 (1)				11.8			5	No. 2
Class B- 6.5 oz.	Nylon (see Type I)	Synthetic (see p. 158).	6.2 6.8	(1)				11.8			5	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-174:5E Type V Type VI Type VII Class A Class B Type VII Class A Class B (Cont'd)	See page 158 for add	litional information.		

E		Specifications	Coating Compound	Weight Oz/ Sq Yd	Inch	Strength Lb. Min.		Lb.	Press- ure High		Char length Max	Worp	Stron- gth Ptakin	wide	Scale rating
H	loth, Costed, and			(5041) Min Max		(5100) W F		132) F	(5512)	WF		(5204) 70°F-40		<b>D9</b> 70	<b>P8/4</b>
1	abbing, inflatable	,		mer I mor		wir		5134)		ml.	wit	10.1	, ,		
	tout and Miscellane lee (Continued) Fry-C-17415E (SHII Am1. 1						()	12341							i
	Type IX									Permee	bility			(-4- \	
		Hylon (see Type V)	Synthetic (see p. 158.)	28.5 31.5	(1)	360 360	21	21	•	2.				(min.) 12	No. 2
	Class B- 33.4 oz	• 40		30.0 34.0	(1)	360 360	15	15		2.	0			8	No. 2
	Type X- 31.5 oz	Ryler (See Type VI)	Synthetic (see p. 158.)	27.8 30.8	(1)					2.	υ			A	No. 2
	Type XI- 35.5 os			31.8 35.2	(1)					2.	0			8	No. 2
	Type XII-45.1 or	Rylon (pite cloth): 2 mylon cloths joined 2-2½" spart by 30 pile yarns/ in min. See Type VI for ply & den- ier. Wgt: 8,20.	•	42.0 46.0	(1)					2.	0			8	No. 2
	Type XIII-12.1 os	Nylon (see p. 158) Weight: 3.10. Break ing strength: 195 in warp & fill.		11.5 12.7	(1)	225 225	12	12		n.	8			8	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as thickness, Shrinkage, etc.)	(Not Specification Requirements)

MIL-C-17415E
Type IX
Class A
Class B
Type X
Type XI
Type XI
Type XIII

See page 158 for additional information.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overali Weight Oz/ Sq Yd		Breaking Strength Lb. Min.	Tearing Strength Lb.	Hydro- static Pre-e- ure High	(590	ince	Flexi – bility Cm. Max. Warp	Burst- ing Stron- gth Pts.	Adho elon Ib/2 wide	Block- ing Scale reting
			(5041)		(5100)	(5132)	(5512)	eec i	Max "	(5204)	(512Z)	5970	5872
Cloth, Coated, and Webbing Inflatable Boat and Miscellane Use (Continued) MIL-C-17415E (SHI Amd. 1			Min Max		WF	W F	Po	WF V		70°F 40	<b>*</b>		· · · · · · · · · · · · · · · · · · ·
Type XIV- 45.3 oz	Nylon (see p. 158). Weight: 13.3 oz max. Breaking strength: 600 in warp & fill.		43.3 47.3	(1)	600 <b>60</b> 0	(5134) 60 60		(L. max 2.0	<u>(.)</u>		(1	dn.) 12	<b>36.</b> 2
Type XV- Webbing, 3 in. wide, un- dyed.	Nylon webbing. To comform to MIL-W-17337, except that it shall be undyed. Weight: 2.2 oz/lin yd. max. Freaking strength: (full width)- 3000 lb.	Synthetic (see p. 158). Friction or spread cated to protect again- at sunlight aging and provide a base for cement.		(fi	3000 ill idth)								No. 2
Type XVI Class A- 24.5 oz	Mylon (see p. 158).	Synthetic (see	22.0 27.0	(1)	300 300	16 16		2.0				16	No. 2
Class B- 24.5 oz			22.0 27.0	(1)	300 <b>30</b> 0	16 16		2.0				8	No. 2
Type XVII-k0.5 oz	Nylon (ame p. 158). Weight: 8,5 oz max. Breaking strength: 400 in warp & fill.	Synthetic (see p. 158).	38.0 42.0	(1)	400 400	25 25		2.0				16	No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as thickness, Surinhage, etc.)	(Not Specification Requirements)

MIL-C-17415E (Cont'd) Type XIV

See page 158 for additional information.

Type XV

Webbing shall be friction or spread coated to protect egainst sunplified aging and to provide a base for cement. Coating shall be no less than 1 mil. thick.

Type XVI Class A Class B Type XVII

See page 158 for additional information.

161.

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NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)			h static Press- ure High	Resis (59 After Flame	(03) Char	bility Cm. Max. Worp	gth	sion Ib/2' wide	ing Scale -2ting
Cloth, Coated; and Tape, Coated Cloth- Chloroprene on Nylo Pheumatic Life Pres HIL-C-19002B, And	n, erver		Min Max	W	F W F		WF	WF	70°F-40	)°F		

Type I- Coated cloth (one side)

Type II- Coated eloth tape (both sides)

Type III- Coated cloth tape (one side - uncured)

Type IV- Coated cloth tape(both sides - uncured)

Hylon twill conforming to MIL-C-19377 (Aer). For flaging of defects a single thread shall be used that will not increase thickness of cloth in order to main-tain uniformity of coating on spread-ing machine. Mark-ing shall be such that it is visible after coating. Tape shell be cut in bias direction.

10 No. 2 (lb/in) At least 60% 7.0 7.7 (1) 180 170 polychloroprene. Remainder of compound shall be 13.3 15.8 (1) 180 170 No. 2 softeners, curing agents, antiox-(1b/in) idents, and reinforcing materials. 9.3 11.5 1 Pigmented. Compound or shall be compatible 3/4 180 170 10 No. 2 (1b/in) with base cloth and contain no waxes or15.6 19.6 1 180 170 10 No. 2 (1b/in) other ingredients that may bloom to the surface to adversely affect coating adhesion. Interment-shility of finished cloth. Compound shall be water insoluble

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness,	NOTES
			Shrinkage, etc.)	(Not Specification Requirements)
MIL-C-19002B	After application of	Color - Base cloth: base	(4)	Intended Use - In the manufacture

Type II
Type III

foundation coat com mcoated side shall be permitted. Tapes: Types II & IV shall be coated on both sides & Type III shall be coated on The side. One side of Type II, the coated side of Type III, and both sides of Type IV shall have a surface coating of high polychloroprene content stock which may be uncured or partially cured (1). Shall be com-patible with cured coated cloth and shall be protected by a suitable liner which may be sep-erated without affecting adhesion and cement-ability of tape. Coated cloth shall be cured. Curnd coating may be ghtly dusted with talc or zinc sterate.

cloth for life preserver foundation coat compatible with base cloth shall be dyed. Base cloth and compound to produce adhesion, cloth shall be dyed or undyed as specified. Coated cloth: coating shall be suitably pigmented during compounding process so that cured coating process so that cured coating and base aloth shall have a and base cloth shall have a uniform color.

after curing. See spec. for table of physical prop-erties of cured compound.

> Material for acceptance shall of components of pneumatic life have been manufactured no more than 4 weeks before release for shipment. Coating shall not be-come stiff or brittle or soft and tacky after accelerated aging. Breaking strength shall be no less than 160 lb. in the warp and 155 lb. in the fill. Elongation shall be a min. of 22% (5850 and 5852). After accelerated weathering, breaking strength shall not be less than 155 in the fill and 160 in the warp, and min. elongation shall be 22% (510%). Permeability of coated cloth to hydrogen shall not exceed 5 L/M in 24 hours or its equivalent using helium. Cloth shall show no signs of air leakage at a pressure of 10 1b/in² for 5 min. (4.4.5.13). Cloth shall not crack when folded on itself after low temp. (5874).

HOMENCLATURE	Base Cloth Specifications	Type of Coating Campound	Over Well	Yd BYd	Width	Breaking Strength Lb. Min. (5100)	Lb.	ure	Reals (5) After Flore		Cm. Max. Werp	ing Stron- gth Pts.	sion Ib/2' wide	Stock- ing Scale rating 5872
Cloth, Coated (For			Min	Mgx		WF	WF		WF	WF	70°F-40	)°F	,	
MIL-C-19524 (AER And. 2		Suitably compound- ed polymer or co- polymer ethylene	4.0 9	9.0	36 +t	(5102) 65 65	(5134) 15 15		(59) (min	min. ) to	·	200		

appropriate to coated cloth

requirements.

resins.

NOMENCLATURE COATING SHADE AND COLORFASTNESS OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)

MIL-C-19524 Coating shall be applied to both surfaces.

Cloth shall be nonirritating to skin. Odor shall not be obnovious.

Skin. Odor shall not be obnovious.

Skin. Odor shall not be obnovious.

Cloth shall be nonirritating to skin. Odor shall not be obnoxious. Strength across seam shall be not less than 75 lb. Coating shall not separate from base cloth, flake, delaminate, or form bubbles or craters (4.5.4). Ice-repellent properties (4.5.5). Mildew resistance: cloth shall not lose more than 10% of breaking strength (4.5.6). After exposure to lubricating oil and hydraulic fluids, cloth shall show no loss of water resistance, nor more than 10% cloth shall show no loss of water resistance, nor more than 10% loss of breaking strength (4.5.7). After exposure to ultra-violet radiation, cloth shall not lose more than 25% of breaking strength, shall show no esbrittlement, delamination or other defects, and shall not cause deleterious effects to painted surfaces. Cloth shall not crack, delaminate, or develop pinholes at low temps. (4.5.9) or rupture or tear (4.5.10). Cloth shall separate readily and not rupture or delaminate at high temp. (4.5.11). No embrittlement, delamination, lessening of ice-repellent properties or other defects after acc. aging (4.5.12).

Intended Use - In the manufacture of protectors (covers) to be used to cover aircraft parts (wings, tail groups, helicopter rotor parts, etc.) in a standby condition, which are exposed to adverse weather conditions of ice, snow, frost, etc.

A Commence of the Commence of

NOMENCLATURE	Base Cleth Specifications	Type of Coating Campound	Overall Weight Oz/ Sq Yd (5041)	I INCO	Breaking Strength Lb. Min. (5100)	Strength Lb.	Press-	After Flam	(20	Flexi- bility Cm. Mex. Werp (5204)	718	wide	reting
Cloth, Coated; Mon- Slip Table Covering	i		Min Mex		WF	WF		WF	WF	70°F-40	)°F		

25 25

OTHER REQUIREMENTS

(Such as thickness,

NOMENCLATURE

Osnaburg, plain weave. Yar-s/inch: 32 in the warp; 24 in the fill.

COATING

a continuous skin free fr: 1 blow holes. It shall be sufficiently non-slip to hold table-

non-slip to hold table-wear in place at an angle of 35°. Rubber under side shall be capable of adhering to the surface of a table without the use of clips, etc., at a 35° angle. Neo-prene surface shall be capable of being cleaned with soap, water & bristle brush of stains of coffee, ketchup, egg, butter, and

ketchup, egg, butter, and other commonly used foods.

Chemically-blown sponge rubber of natural or synthe-tic rubber or a 1.06 1.09 (15/yd) compound thereof. Neoprene costing .005 - .010 in thickness. 3-cost application is normally needed to achieve thickness. Rubber shall be of a soft, flame resistent quality, with an adhesive risd or surface, homogeneous in character and free from any defect which may affect

its appearance or impair its service-sbility.

			Shrinkage, etc.)
MIL-C-19635	Undersurface shall consist of a layer of sponge rubber. One fold of cloth shall be firmly imbedded & keyed to rubber layer, but shall not show through at any point. Exposed side of cloth tacking shall be finished with neoprene coating to form the upper surface of the cloth. Neoprene coating shall permit the imprisof the backing cloth the show and produce a some what rough, slip-resistant effect. Neoprene surface shall be non-porous and shall have	otherwise specified, neoprene coated upper surface shall be Ureen to match Color No. 14260 of Fed. Std. No. 595. Under surface: unless otherwise specified, color of sponge rubbar under surface may be at the option of the manufacturer.  6 6 6 6 6 7 7 8 8 8 8 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rubber shall be free from objectionable odor under ordinary service conditions. Cloth shall not become sticky or crack when bent back on itself after accaging. Cloth shall be flame resistant. Cloth shall be capable of heing rolled or folied for storage without cracking or delamination. Table covering shall show no evidence of separation into distinct layers or laminations when subjected to ordinary usage.

SHADE AND COLORFASTNESS

NOTES (Not Specification Requirements)

Intended Use - To be placed directly on standard mess tables during rough weather, to retain dishes and miscellaneous tablewear in place without the use of fiddle boards. It is not intended to be used as a matting underlay for other types of table covers used in normal weather.

164.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd	Width	Breaking Strength Lb. Min.	Tearing Strength Lb.	Hydro- static Prese- ure High		me ance (03) Char length	Warp	ing Stren- gth Ptake	wide	Block- ing Scatz rating
			(5041)		(5190)	(5132)	(5512)	min	Max."	(520	4) (512.2)	5970	5872
Cloth, Coated (Rylon Tuffeta) HIL-C-19699A (SA)			Min Msx		W F	WF		WF	WIF	70°F -	40°F		
'Amd. 1	Cloth, mylon, tar- feta (2.0 oz.) con- forming to MIL-C- 21852.	cized chloroprene	•	<b>(1)</b>	110 95	fo	80 (initial See spec r requir nts lite esting.	•-		2.5 8	3.0	10	•
Cloth, Coated (Bylon Twill, Low Count) MIL-C-19759A (SA)			ı										
Type I= 7.5 oz. costed one side	Cloth, nylon twill low count 3.5 oz., conforming to MIL- C-19256. Face shall be identified by twill line running from lower left to	cized chloroprene rubber. Pigmented. Non-toxic, non- irritant and free from objectionable		5 (1)		(grame) ( S for men				9.0 25	5.0	10	
Type II- 9.0 oz. coated both sides	upper right.		9.0 <u>+</u> 0.9	5 (1)		(grame) (		•	1	4.0 35	•0	10	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-19699A		Color - Coating shall be pigmented Black. Standard sample available.	(4) Coated cloth shall show no tack- iness, exudation, or loss of flexibility at high temps. (5850). Clot.: shall be free from object- ionable odor.	Intended Use - In the manufac- ture of special purpose clothing worn by Navy personnel.

MIL-C-19759A Type I Type II

shall be coated on back only with app. \$\frac{1}{4}.0 oz. of compound.\$ Type II shall be coated on back with app. \$\frac{1}{4}.0 oz. of compound, and on the face with app. \$1.5 oz. of coating.

Coated cloth shall be flexible, free from tackiners, and resistant to abrasion and scratching. Type I coating of back shall be pigmented Black. There shall be no change in shade on the face of the cloth. Type II: Coating of back shall be pigmented Green to approximate shade of basic cloth. Standard samples available for both types.

Intended Use - Type I: in the fabrication on special cold weather clothing items. Type II: in the fabrication of the submarine deck exposure suit and wet weather clothing items.

KOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd	Inch			static Press- ura High	Resis (59 After Flore	longth	bili Cm. I Wo	Max. Stren	sion Ib/2	Block- ing Scale rating
			(5041)		(5100)	(5132)	(5512)			(52	(5122	5970	5872
Cloth, Couted, Nylon, Waterproof MIL-C-20596A, And	. 2		Min Mox	l	WF	WF		WF	WF	70°F	-40°F		
Type I- Nylon, 2.3 oz (nominal) uncosted. Class I- Base cloth coated with chloro- prene.	Bright high tena- city filement nylon. Flain weave. Weight: 2.3 + 0.2 oz. Yarns/ Inch: 38 in warp and	rubber. Up to 20% other elas- tomers (such as		min. (: or (: (1)(a:	(5102) 120 100 initial) 30% 80% [ter weat	(5134) 12 10				7-10	12	10	No. 3
Cla. ?- Base cloth coated with vinyl chloride poly- mer or copoly- mer.	fill. Breaking strength: 115 lb. in warp and fill.		8.0 10.0	min. (i or ( (1)(si	120 100 initial) 30% 80% [ter weat ometer)				•	7-10	(+10°F) 13	10	No. 3
Class 3- Base cloth coated with chloro- prene contain- ing fire retard- ant. (Continued)		Chloroprene rub- ber containing an evenly dis- persed fire in- hibitor. Up to 20% other elas- tomers (such as SER) may be added		min. (i or 8 (1)(ai	120 100 initial) 30% 80% Ther weat ometer)	12 10	:		3.5 ( each)		(-40°F) 12	10	No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirement			
IIL-C-20696A Type I Class 1 Class 2 Class 3 (Continued)	Coating shall be applied to both sides of base cloth. Face side shall receive a heavier coating than back, except for Type II, Class 2, which may have a balanced or unbalanced coating as specified. Classes 1 and 3 coated cloths shall be fully vulcanized and dusted with whiting, talc, or other finely divided mineral material which does not support mildew growth. Plasticizers for Class 2 shall be limited to phosphete and phthalate esters exclusively.	number of Fed. Std. No. 595 or approved color standard for color specified (3). Colorfactness - no change after acc. weathering (3.4.5).	Types I & Il, Class 1 & 3: shall not become stiff or brittle or	Intended Use - In the fabrication of wing covers, engine covers, shelters, gun and vehicle covers and equipage items.			

NOMENCLATURE	Base Cloth Specifications	Type of Coating Campound	Wel O: Sq	ight z/ Yd		Breaking Strength Lb. Min.	Strongth Lb.	static Press- ure High	Resis (5) After Flore	longti		ing Stren- gth Ptain.	sion 16/2 wide	Block- ing Scale reting
			(50		1	(5100)	(5132)	(5512)					5970	5872
Cloth, Coated, Nylon, Waterproof			Min	Mox		WF	WF		WF	WF	70°F 40	)*F		
MIL-C-20696A Amd. 2, (Cont'd)							(5134)			Ţ	•			
Type II- Nylon 5.1 oz (nominel) uncoated Class 1- Base cloth coated with chloro- prene.	Bright high tena- city filament ny- lon. Plain veave. Weight: 5.1+0.3 oz. Yarns/Inch: 22 in.	Class 1 p. 166.	15	17	or (1)(a	(5102) 325 260 (initial) 80% 80% fter weat	•				11.5- 20. 14.5	.0	15	No. 3
Class 2- Base cloth coated with vinyl chloride poly- mer or copolymer	the varp; 21 in the fill. Breaking strength: 225 ir warp and fill.	Class 2 p. 166. Coating shall also contain an evenly dispersed fire inhibitor.	17	19	min. or (1)(a	325 267 (initial) 80% 80% fter weat ometer)					(+10 13.5- 22, 16.5	.0	15	No. 3
Class 3- Base cloth coated with chloro- prene contain- ing fire retardant.		Class 3 p. 166.	17	19	min. or (1)(a	325 260 (initial) 80% 80% fter weat ometer)			10 10	3.5W 3.5F	11.5- 20.	າີF) •0	15	No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-20696A Type II Class 1 Class 2 Class 3 (Cent'd)	See page 166.	See page 166.	See p. 166. Type II, Class 2: in warp direction, flame shall not traverse entire length of specimen within 42 sec. of start of burner flame (5903-T).	See p. 166.

NOMENCLATURE	Base Cloth Specifications	Costing Composite	Overall Weight Oz/ Sq Yá (5041)	men	Breaking Strength Lb. Min. (5100)	Tearing Strongth Lb. (5132)	Press- ure High	Resis (59 After Flame	Char	Cm. Max. Werp	ing Stren- gth	sion ib/2" wide	ing Scale rating
Cloch, Costed, Raft Bottom HIL-C-21109A (WES	·)		Min Max		W F	WF		WF	WF	70°F-40	)°F		

Mylon conforming to Naturel rubber-MIL-C-21108, Type I. not less than 80% 6.3 7.0 (1) 150 140 (initial) 90% 90% Type I- 7.0 oz. 7.0 No. 2 (initial) by volume new plantation rubber. Containing soft-50 (after heat (after heat aging) aging) Type II- 14.0 oz. Hylon conforming to agents, anti-NIL-C-21108, Type II.oxidants, ard 13.3 14.5 (1) 300 300 (initia.) 90% 90% (after heat 100 7.0 No. 2 (initial) reinforcing we'. 100 (after heat erials. Outer coating shall be roing) aging) pigmented. Fineness that 100% of pigment shall pass through 325 mesh screen. Coat-

ings shall not be injurious to base cloth and contain no ingredients which might bloom to the surface of adversely affect coated cloth. Shall cure properly & be water insoluble (water extractable matter: 1% of wgt. max.). Compound shall be cured in sheet form. See spec. for table of physical prop-erties of coating :compound.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as thickness, Shrinkage, etc.)	(Not Specification Requirements)
MTT - C - 233 0004	Foundation made	Colon Halana attanna	49 11 1 10 10 10 10	

Type I Type II

required adhesion.
Coating compound shall
then be applied by
spread coating operation. Compound shall
be applied in sequence of operations so that both sides shall be coated and built up in accordance with spec. Pigment shall be incorporated in outermost coating. Coating shall be cured. Cured coated cloth may be lightly dusted with tale of

zinc stearate.

Color -Unless otherwise

Cloth shall be from current compatible with base cloth & remainder of coating compound shall shall be an app. match to be applied to achieve color number 33538 luster-less Yellow of Fed. Std. 595. and tacky after heat aging and tacky after heat aging (4.6.9). Cloth shall show no signs of cracking when folded after exposure to low temps. (4.6.10).

Intended Use - In the manufacture of life raft bottoms. Type I is for one-man rafts, cylinder car-riers, oral inflation valve pockets, sea anchor moorings, and accessory patches used in the manufacture of pararafts and packet rafts. Type II is for the multi-place life raft bottoms.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	1700,51	Breaking Strength Lb. Min. (5100)	Strangth	Press-	(59 After Flame	ance	Flexi- bility Cm. Max. Warp (5204)	ing Stren- gth Ptg.	sion ib/2" wide	Block- ing Scale rating
Cloth, Isminated, ZPG and ZPG W			Min Mox		WF	WF		WF	WF	70°F-40	PF		
Type Airship Envel	) )				(5102)								ı

16.5 40

min.

320 280 130 130 (see spec. for requirements

after testing)

600

Dacron (polyester fiber). Cloth shall be heat set so that shrinkage shall be

no greater than 1.5% in both warp and fill. Mrx. chloroform extractable matter shall be 1.5%. pd: 6.5 - 8.0 (2811).

Not less than 75% by velume chloroprene. Outer cost shall contain not less than 75% by vol-ume) chloroculfonated poly-ethylene. Balance shall be softeners, curing agents, anti-oxidents, and

reinforcing mat-erials. Chlorosulfonated poly-ethylene shall contain aluminum pigment conforming to TT-A-468, cementability, water insoluble after cur-ing and shall not irritate skin or detrimentally affect

Types I or II, Class A. Compounds shall contain no waxes or ingredients that may bloom to the surface to affect coating adhesion or cementability. Water

decron. Cured in sheet form. See spec. for table of physical properties of coating cmpd.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness.	NOTES
			Shrinkage, etc.)	(Not Specification Requirements)
MALE V GLOBO	Variable of the Control of the Contr	Caller Halana Alamata	/L.\	

Laminated cloth shall consist of 2 plies of dacron (polyester fiber) cloth bonded & coated uniformly with chloroprene base com-pound on outer sides of cloth. Leminated cloth shall have additional coating of aluminized-chlorosulfonated polyethylene on one (outer) side of laminated cloth.

Color - Unless otherwise specified, color shall be aluminized.

(4)
No more than 4 weeks shall elapse from time of curing to date of delivery of coated cloth. Ultimate elongation- Initial: 30% mate elongation- Initial: 30% max. in varp and fill for straight ply; 35% max. for warp and fill for bias ply (5102). See spec. for requirements after testing. Permeability to hydrogen-Without tension- Initial: 2.5 L/sq M/24 hours max. At bias seam-Initial: 2.5 L/sq M/24 hours max. (5460). See spec. for requirements after testing. Adhesion between plies - Initial: 7.5 lb/in min.; After creasing: 7.5 lb/in min.; After creasing: 7.5 lb/in min. (5950). Cylinder elongation: 1% max. in the warp (10.2.6). Aluminized laminated cloth, after treatment with aluminum base wash coat, shall show total reflectance of not less than 50%. Bias seam: 3/4 in. min. Free from ragged and uneven edges and from loose threads imbedded in certifications. in coating compound. Coating shall be applied uniformly throughout.

Intended Use - In the manufacture of airship envelopes.

No. 1 10

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Over Web Oz Sq	yd Yd	INCH	Breaking Strength Lb. Min. (5100)		Press-	Resist (59 After Flame	(Char	bili Cm. We	ity Max. Irp	ing Stren- gth	sion Ib/2" wide	Block- ing Scale rating 5872
Dunnage Mattress, Pneumatic, Cargo		*	Min	Max		WF	WF		WF	WF	70°	40	°F		
Shoring MIL-D-21857A	Casing base cloth shall be nylon duck.	Chloroprene synthetic rub-	40	50		675 650	90 90			•	(73°) 16	20 (~20		35	No. 1

Yern: 210 den. 3235 filement, bright
high tenacity polysmide of bexemethylene dismins & adipic
acid or its derivatives;
5-ply (6). Weave: 2/2
basket (2 ends weaving
av 1 and 2 picks/shed).
Weight: 13.040.3 oz.
Yerns/Inch: Wo min.
in warp and fill.
Breaking strength; 675
lb. min. in the warp;
650 lb. min. in the
fill. Elongation; 20%
min. in warp and fill.
Hon-fibrous material; Yern: 210 den. 32ber. Pigmented. Mon-fibrous material: 2% of dry weight of cloth. pH: 5 - 9.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
	Uncoated cloth shall	Color - Uncoated cloth shall		Intended Use - The dunnage unit

be thoroughly scoured and heat tracted to impart stability, so that the cloth shall not shrink more than 3% in the warp or 2% in the fill. Coating compound shall be uniformly shall be uniformly applied so that one side shall have a min. coating of 19.0 ox/sq yd.. and the other side shall have a min. coating of 9.0 ox/sq yd. Coated cloth shall be beat-walcarized. heat-vulcanized.

See spec. for requirements for strapping, thread, webbing, blad-der, valve chain, and closure rod. air mattress used for tightening Abrasion: cloth shall be tested and cushioning loads, absorbing Abrasion: Cloth shall be tested for 20,000 cycles without tearing through (5032). Permeability: the dunnage unit shall show no more than a 0.2 lb. pressure loss after 24 hours of testing (4.4.2.1).

is a special design, highly reair mattress used for tightening and cushioning loads, absorbing impact shocks, and reducing load vibration during common carrier trensit. The dunnage unit is in-tended to replace timber shoring and is capable of being placed in position and inflated by one man. Dunnage units are capable of multiple usage to restrain palletized loads, large boxes, and irregularly shaped commodity containers. Dunnage units may be used singly or in series to fill voids as determined by load spacing in the carrier.

NOMENCLATURE	Base Cloth Specifications	Couring Compound	Overall Weight Oz/ Sq Yd	unca	Breaking Strength Lb. Min. (5100)	Tearing Strength Lb. (5132)	Press- ure High	After Flame	ance	Can. Max.	ing Stren- gth Pts.	elon Ib/2" wide	ing Scale rating
Cloth, Coated (Neo- prene, Asbestos, Glass, Cotton;			Min Max		WF	WF		WF	WF	70°F-40	PF.	0	

prene, Asbestos,
Glass, Cotton;
Aluminized)

MIL-C-21890 (NAVY) Warp: 100% continuous filament glass fiber. Filling: 2-ply; one end of asbestos-cotton blend (Underwriter's Grade); one end of continuous filament glass fiber. Weight:
11.8 oz max.
Weave: 2/1 right twill. Yarns/inch: 60 in the warp; 38 in the fill. Breaking strength: 90 lb. in the varp; 70 lb. in the fill.
Tearing strength: 6 lb. in the fill.
Fiber content: 55% asbestos; 27% glass 18% cotton.

- 19.0 (1) 90 70

30 2 2 1.5 1.5 (initial) 25 (after stretching)

NOMENICLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL=C-21890	lied to back of cloth. Coated cloth shall be	•	There shall be no evidence of cracking on either side after exposure to low temps. (5874). No blocking on either side; no visible loss of reflectance on aluminum side at high temps. (5872). Neoprene coating shall not tear or delaminate (5872). Aluminum coating shall not separate from base cloth (4.4.3). Flexitility: no cracks or seperations on either side (4.4.1).	Intended Use - In the manufacture or protective clothing for fire fighters' outfits and other hear protective, proximity garments.

NOMENCLATURE	Boss Cloth Specifications	Type of Coeting Compound	Oz/ Sq Yd	Width Breaking Inch Strength Lb. Mis.	Lb.	Press-	Resistant (59 After Flores	Char	Cm. Max. Worp	ing Stren- gth	sion Ib/2' wide	ing Scale reting
Cloth, Ismineted,	4	<u> </u>	Min Max	(5100) W F	WF	1 (3312)					15310	5072
Imintable Floor	Warre bud also	Continue & Tombo	30 32	(a) (1) 2500 2500				•	,		7	No. 2

MIL-C-22427 (MEP) Yarn; bright co mercial mylon poly-amide of polyhex-amethylene adipmide. Pile cloth saide. Pile cloth
shall consist of 2
mylon cloths joined
by a min. of 30
pile yarn/sq in so
that cloths are
spaced a min. of 1 in. apart after heat setting. Wgt: 7.6+0.5 oz. Yarns/ in: 50+2 in. warp and fill; 30 in pile. Height of pile: 1 in. Yarn size: warp-2-ply 70 den.; fill-singles 210 den.; pile-2-ply 70 den. or singles, 210 den. Weave: face & backplain; Pile thread: fast pile or W. Cover cloth shell be nylon, 1.0+ 0.1 oz. plain weave. 90+2 yarns/in. warp & fill. Breaking strength: 40 warp and fill. Calendered, scoured, heat set. (6). pH: 6 - 8.

Coating & laminating compound shall be 80% by volume min. nev plantation rubber. Belance of softeners, curing agents, anti-oxidants, & rein-forcing materials. Pigmented. Pigment of finess to pass through 325 mesh screen. Foundation coat & rubber shall not injure base cloth or contain ingredients which would bloom to the surface or affect coating adhesion or bondability of finished cloth. No shall be used & anti-oxidant used

(initial) 85% 85% (after heat aging) rubber substitutes must retard aging in service. Com-pound shall be cured in sheets.

	•			
NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
	Coating shall be app- lied with a spreader,	Color - Color of finished laminated cloth shall be	(a)Method No. 4111 of Fed. Std. 601. Cloth shall be a max. of 4	Intended Use - In the manufacture of the MK 12A-1 inflatable floor

applied to base cloth Std. 595. to insure required adhesion. Rubber coating shall be applied to each side of pile cloth. On top of coating on each surface shall be applied the nylon cloth, to which, in turn, shall be app-lied the natural rubber. Pigment shall be incorporated in outer-most coatings. Laminated cloth shall be cured, and cured cloth may than be dusted with talc or zinc stearate.

using multilayer appli- uniform and an app. match cation technique. Foun- to color number 33538 dation coating shall be lusterless Yellow of Fed.

weeks of age at time of release for shipping. Permeability to hydrogen: L/M. Permeability to helium: 2.5 L/M (see spec. for requirements after exposure to high and low temps.) Cloth shall show no signs of cracking after exposure to low temps (4.5.10). Folded cloth shall not be tacky or adhere to itself after exposure to high temps. after exposure to high temps. (4.5.11). Coating shall not become stiff and brittle or soft and tacky after heat aging. Adhesion between plies and coating shall be not less than 6. Breaking strength shall be at least 85% of original (4.5.12). Cloth shall show no signs of air leakage at a pressure of 5 lb/inf for 5 min. (4.5.13). Elongation: Initial-500%. After heat aging-75% of original. Free sulfur: 0.25 max, Herdness, Shore duro-0.2% max. Hardness, Shore durometer: 50 ± 5.

for life rafts.

(initial)

6 (after heat

aging!

Fi.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	Inch	Breaking Strength Lb. Min. (5100)	Strength	static Press- ure High (5512)	Recis (59 After Flame sec	Char length Max	Flexi- bility Cm. Max. Warp (5204)	Sursting Stree- gth Pts.in (5(22)		Stock- ing Scale reting 5872
Cloth, Nylon, Harquisette; Hetali MIL-C-22156 (AEP)		****	Min Max 8.0±0.5	46 <u>+</u> 1	(5102) 140 150	W F (5134) 11 20		WF	WF	70-1-40		¥ ₽ 3.5 5.0	0

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-22156	Base cloth shall be metallized to produce a max. resistance of 10 ohms/sq ft. Outside protective coating shall be applied to form an envelope around yarms in both warp and fill directions, thereby leaving the interstices substantially open. Radar reflecting surface shall be produced (4.4.8).		Selvage shall be double density ly in. wide woven on each edge. Three 1 in. double density reinforcing strips shall be woven in, equally spaced in width of the cloth. Yarns/in: 40 in the warp; 22 in the fill. Flame resistance: no less than 2 min. to consume (5910). Air permeability: 950 CFM/sq fi min., .5 in. water pressure drop (5450). Open area: 99.9%. No cracking at low temps. (4.4.5). No cracking or flaking at exposure to hydrocarbon fluid (4.4.6). No adhesion of surfaces at high temps.	of radar reflective tow targets

NOMENCLATURE	Base Cloth Specifications	Type of Cocting Compound	Overall Weight Oz/			ngth	Streng	g Hydr stati Pres	C S	Resis (59	tance (O3)	Flexi- bility Cm. Max. Worp	ing	sion Ib/2	
			\$q Yd (5041)		(51	00)	(5132	ure High (55)	, I	Florme	length Max		Pthin.		
loth, Coated; Fire, later, Hildew and leather Resistant MIL-S-22524A (SHIP Amd. 1			Min Max		w	F	WF					70°F-40	PF		
Class 1- 12+10% oz	. Nylon	Of a character that finished cloth	12 <u>+</u> 10%	(1)	180	160	7 6	250	)	5 <b>5</b>	5 5			12	No. 2
Class 2- 15+10% oz	t. "	will be suitably resistant to fire.	15 <u>+</u> 10%	(1)	300	260	12 10	250	)	5 5	5 5			12	No. 2
Class 3- 18+10% or	. "	water, mildew & will not deterior- ate when used out- doors. It shall not be hygroscopic or cause dermatitis when cloth to which it has been applied	n i	(1)	300	300	30 25	250	)	5 5	5 5			12	No. 2
		is handled. Finishe cloth shall not exe any corrosive actio on metallic grommet	ert on												

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness,	NOTES
			Shrinkage, etc.)	(Not Specification Requirements)

MIL-C-22524A Class 1 Class 2 Class 3

Color(1). Colorfastness- "fair" to light (5660).

Mildew resistance: cloth shall show no more than traces of surface growth and lose no more than 15% of strength due to mildew stack. Cloth shall show the same water resistance after weathering, and the same flame and mildew resistance after weathering and water leaching. No cracking or flaking as low temps, initially said after weathering (5874). Flexibility: bending moment of 0.0000 in-15, max, initially; of 0.550 in-15, after heat aging; and of 0.1000 in-15, max, after extosure to low temp. (5202-5370). Shrinkage: 3% in each direction after heat aging (5870). Cloth shall not love more tran 25% of breaking and tearing strength after weathering. No cracking or flaking of coating after exposure to ozone (5,5,1).

intended Use - In the manufacture of various covers and awning providing protection under varying climactic conditions during prolonged outdoor use.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	-	gnt z/ Yd	Width	Breakin Streng Lb. Mi	in.	Tearing Strength L.b. (5132)	Press- ure High	(5) After Flore	903)	bility Cm. Max. Warp	Ptain	sion Ib/2" wide	Scale rating
Cloth, Coated, Glas Vinyl Coated, Fuel	-		Min	Max		WF		WF		WF	WF	70°F-40	°F		
and Flame Resistant MIL-C-22787 (SA) Amd. 1	Cloth, glass con- forming to Class C,		11	14	(2) 30 min.	205 18	5	. (	200 initial		3 3			12	No. 3

for 4, Fiber D, cloth n. 126 of MIL-Y-1140.

resin. Flame resistant.

200

(after cold crack) Pigmented. (after heat aging)

Cloth, Coated,
Nylon, Copolymer of
Butadiene and Acrylonitrile (Rubber)
MIL-C-22916 (MC)

Nylon 66 (polyhex- Rubber copolymer - 4.8 (1) 50 50 17 17 amethylene adip- of butadiene and amide). W: semi- acrylonitrile, dull, 40 den., 13 plasticized with filament. F: bright phosphate or ph-70 den., 34 fila- thalate ester ment. Relaxed fill- plasticizers. ing yarn mendatory Pigmented. in order to minimize pirn taper barre. Weight: 1.4-1.6 oz. Yarns/ Inch: 116 W; 76F. Breaking strength: 50. Weave: 2/1 right twill. Sel-vages composed of 34-4 ends, weav-ing 2 as 1. Feat shrunk & dyed. Shrinkage: 29 max. W, 1% max. F.

65 (see spec. for requirements after testing)

No. 2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-22787	Base cloth shall be impregnated with coating, applied equally and uniformly to both sides.	Color-Coating shall be pigmented to match Green No. 34079 of Fed. Std. 595.	(4) Thickness: 0.02 in. max. Shall not become soft, tacky, stiff or brittle after acc. weather- ing (5804). Cloth shall not curl, become stiff, or crack	Intended Use - As a covering for detachable compartments.

MIL-C-22916

on reverse side only and then cured. Uniform finish. Coated side shall be dusted with a micaceous tale of 98/100 mesh to prevent blocking. Reverse side shall be side with the No strike through of coating to un- side shall be equal to coated side of cloth. standard coated sample.

Cloth shall be coated Color - Base cloth; cloth shall be dyed with special nylon dyes or other dyes that will show no more striation in finished coated cloth than standard sample. Cloth shall match standard sample Green 2200 (3). Coated cloth: cloth shall match standard shade sample twill line running Green 2200 in luster and up from right to left. color (3). Colorfastness - Uncoated

All selvages shall be trimmed from coated cloth.

on bending after exposure to hydrocarbon test fluid or hydraulic oil (4.5.1-4.5.2).

> Intended Use - In the manufacture of rainwear.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	Width	Breaking Strength Lb. Min. (5100)	Augus.	Press- ure High	(59 After Flore	tance (03) Char length Max	bility Cm. Max.	ing Stren- gth Pta	sion Ib/2" wide	Stock- ing Scale rating 5872
Cloth, Laminated, and Tape, Coated Cloth, Matural Robber on Rylon Mil-C-23070 (MEP)	1		Min Mex		<b>W</b>  F	<b>W</b>  F		WF	WF	70°F-40	)°F		

A-1. 1

Variety C-Lamirated cloth

Cloth shall conform to: MIL-C-19377 & MIL-C-7020, Type II, except that it nsed not conform to air pereability and vermanence of finish requirements. Any defect shall be marked with a single which shall not increase cloth thickness, and, when coated, shall allow uniformity of coating on spreading machine. Threai shall be visible after costing.

Not less than 80% - 12.5 (1) 300 250 by volume of new plantation natural rubber. Balance shall be softeners, curing agents, anti-oxidants, & rein-forcing materials. Compand for outer coatings shall be pigmented. Pigment shall pass through 325 meth screen. Compounds shall not be injurious to base cloth & shall contain no ingredients which would bloom to the surface or affect properties of cloth. Compounds shall be such that they will cure properly and provide proofing films in-soluble to water. See spec. for table of physical properties of cured coating compound.

(initial) 90% 90% (after heat aging) 75% 75% (after weatherometer)

7.0 (1)

No. 2

5

Coated cloth

NOMENCLATURE COATING SHADE AND COLORFASTNESS ' OTES OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.) (Net Specification Requirements)

MIL-C-23070 Variety C Variety T

Foundation coating compatible with base cloth and remainder of coating shall be applied to achieve agnesion. Coating shall be applied to base cloth by spread coating operation.
Commound shall be applied in sequence of operations so that both sides of each cloth ply shall be coated and laminated. Pigment shall be incorporated in outermost coatings. Lam-inated cloth shall be cured. Cured laminated cloth may be lightly dusted with tale or zinc stearate.

Color - Base cloth shall te undyed. Coated cloth: fin-ished cloth and tape (1). Usual color selected is Color No. 33538 Yellow (usually on straight ply side) of Fed. Std. 595. Normally, pure sum rubber coating of cloth tape, which is not fully cured, shall not be pigmented. Opposite side shall match selected color.

Cloth & tape shall not be more than 90 days old prior to date of life rafts. release for shipment. Laminated cloth: Cloth shall not become soft and tacky or stiff and brittle after heat aging (4.6.9). Cloth shall not become discolored, brittle, or show signs of blooming after weatherometer (4.6.10). Cloth shall show no signs of cracking after exposure to low temps. (4.6.11). Cloth shall not become tacky or adhere to titself after exposure to high temps. (4.6.12). Permeability to nydrogen: Initial- 4 L/M/ 24 hours. See spec. for require-ments after testing (5-60). No air leakage under pressure (4.6.13). Coated cloth tape: Edges of tape shall be smooth, not pinked. Tape shall not be dusted. Calendered uncured gum coating side of tape shall be protected by a suitable line. which shall be capable of separation without affecting adhesion or cementatility of oloth. Fernmeability to helicm: 2.5 L/M2/24 hrs. See spec. for requirements after texting (5460).

Intended Use - In inflatable

NOMENCLATURE	Base Cloth Specifications	Type of Coating Campound	Overall Weight Oz/ Sq Yd		Lb. I	igth Min.	Tearing Strength Lb.	static Press- ure High	Roolo	tance (03) Char		Oursting Stree- oth Ptakin	46.7	Stock- ing Socie reting
Cloth, Costed and Leminated, Polychlo prene on Nylon, and Tipe, Polychloropre Unsupported MIL-C-23926 (MEP)	ne,		(504!) Min Max	ļ	w		(5132) W F	(5512)	WF	WF	70°F 40		<del>59</del> 70	5872
Amd. 1  Type I- Cloth, coated, rubber. knitted stretch nylon.	Plain jersey cir- cular knit made of stretch nylon yarns. Yarn.	Not less than 60% by volume of poly- chloroprene. Bal- ance shall be soft-		(1)	90 I	45							8	
Type II- Cloth, leminated, rubber, neck and wrist seel.  Type III- Tape,	shall be mylon polyamide of polyhexamethylene adipamide. Tape shall be made of polyhhloropreze.	eners, curing agents, anti-oxi- dants, and rein- forcing materials. Coated shall be natural color or pigmented. Coat-		(1)	90 1	45							8	
rubber, unsup- ported. Class 1- Pressur sensitive tape.	•	ing compound shall be compatible with base cloth & con- tain no waxes or		(1)										
Class 2- Non- pressure sen- sitive tape.	•	other ingredients that may bloom to the surface to ad- versely affect coating adhesion		(1)										
Type IV- Cloth, coated, rubber, knitted stretch mylon, uncured, semi-cured.		or comentability. Ingredients of compound shall be water soluble after curing.		(1)	90 1	45							8	

Type IT which must be compatible with base cloth flass 1 conting shall be applied to me surface, side with smooth surface to provide best coating adhesion on Types I & IV. Cloth shall be cured.  Clich shall be ured coating adhesion on Types I & IV. Cloth shall be ured.  Clich shall be ured.  Clich shall be applied to one surface, side with smooth surface to provide best coating adhesion on Types I & IV. Cloth shall be ured.  Clich shall be ured.  Cured coating may be lightly dusted with talc or alm steerate.  Typs IV cloth shall be uncred or partially cured (1).  Examined a Nurry IV out of insulation garment and cont in the vales; 250% min. In the vales;	NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
		a foundation coat which must be compatible with base cloth & remainder of compound, coating compound, coating compound shall be applied by spreader or calender coating operation. Coating shall be applied to one surface, side with smooth surface to provide best coating adhesion on Types I & IV, and applied between 2 cloths of Type II. Cloth shall be cured. Cured coating may be lightly dusted with talc or line stearate. Type IV cloth shall be uncured or partially	Coating: coating shall be natural color or pigmented during compounding so that cured compound and base cloth shall have matching color. Tape (1).	strip, Types I, II and IV: 100% min. in the wales: 250% min. in the courses. Costing thickness: Types I & II- 0.012 in. min.; Types I & II- 0.012 in. min.; Types I & II- 0.016 in. min. Modulus at 75% elongation: Types I & II- long ation: Types I & II- long ation: 2 in. wide specimen, in course direction, after specimen has been stretched 150%, shall not exceed 3.0 lb. (4.4.8). Resistance to flexing: Types I and II shall show no tears in coating, no spearation of coating from cloth, and no leakage of water (4.4.9). Types I, II & IV shall not crack or leak water after exposure to low temps. (4.4.10). After being stretched to 100% for 16 hours, tension set of Types I, II, and IV shall not exceed 13% when examined 3 hours later (4.4.11). Class I tape shall have surface coating of polychloroprene, uncured or partially cured, cowered with protective liner; cured side lightly dusted with talc. Class 2 tape: same cure as coated cloth; one side with protective liner;	

Gunga.

NOMENCLATURE	Base Cloth Specifications	Cogring Compound	Overall Weight Oz/ Sq Yd (5041)	MCM	Lb. Min.	Tearing Strength Lb. (5132)	Press- ure High	(59 After Fiame	03)	Cm. Max. Warp	ing Stren- gth	sion lb/2" wide	ing Scale rating
Cloth, Mylon, Metalised			Min Mox		WF	WF		WF	WF	70°F-40	°F		
MII-C-25694A (USA	F) krquisette voven from	Metallic silver	- 4.0	(1)	(5104) 100 125	(5134) 8 8			•	•			

Marquisette woven from Metallic silver - 4.0 (1) 100 125 8 8 260 5en., 17 filement high tenacity nylon.

Yarn shall be a poly—amide from hexauchylene dismine & adipic acid or its derivatives. It shall have a melting point of 250046°C. Weight: 3.25 oz max. Yarns/Inch: 40 in the warp; 22 in the fill. Fly: 1x2. Thickness: 0.0170 in. mex. Breaking strength: 100 in the warp; 125 in the fill. Tearing strength: 100 in the warp; at 5 in. Wayer: 4-end leno, repeating on 2 picks (8). (6). Double density selvage, 1 in. min. woven each side.

Permanent finish: air permeability shall not change more than 10%; and cloth shrinknese shall be 2% min. in the warp and 1% min.in the fill. pl: 5.0 - 9.0.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-25694A	Base cloth shall be equally and uniformly metalized on each side to provide rader reflectivity. Metalizing shall be such to withstand normal folding and handling of cloth without excess /e transfer to the hands.		Air permeability: 3750-3900 ft ³ /min/t ² at 5 in. (5450). Metalized cloth shall not crack or flake after exposure to low temps. (4.3.2.3). Cloth shall show no greater resistance to electricity than 10 ohms (4.3.2.4).	Intended Use - In the manufacture of aerial tanner type tow targets

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	INCH	Breaking Strength Lb. Min. (5100)	Strangth	Press- ure	Resis (55) After Flame	(03)	Cm. Max. Warp	ing Stren- gth Pts. Inin.	Adhe sion Ib/2" wide	Block- ing Scale rating 5872
Cloth, Costed, Nylo Chloroprene-Costed MIL-C-26712A (ASC	-		Min Max		WF	WF		WF	WF	70°F-40	)°F		ą.
Amd. 1		shall be softeners,	-		575 525 (initial) 90% 90% fter agin	g)						10 nitial 3 er agin	

Breaking strength: 425 in the warp; 375 in the fill. Weave: plain.

210 den., 4-ply or 840 den., singles, continuous filament, high tenacity nylon polyamide of polymeramide. It shell have a melting point of 4820+10°F. Weight: 8.50 cz. max. Yarns/Inch: 24 in the warp; 30 in the fill. Rreaking strength: Not less than 60% to chloroprene by chlor ingredients that may bloom to the surface and ad-versely affect coating adhesion and rementability. Coating shall not contain any ingre-dients known to promote skin irr-itation or to have detrimental have detrimental effect on nylon.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-26712A	Coating shall be applied equally to both sides of cloth.	Color - Unless otherwise specified, color of finished cloth shall be Black.	Thickness: 0.045+0.003 in. No blocking (5872). Cloth shall not crack at low temps. (4.3.2.3).	Intended Use - In aricraft pneumatic lifting bags.

	OMENCLATURE	Bree Cloth Specifications	Type of Coating Compound	Overeil Weight Oz/ Sq Yd (5041)	inch	Breaking Strength Lb. Min. (5100)		static Press- ure	Resis (59 After Flore	char langth Max	bility Cm. Max. Warp	gth Pthin	sion tb/2" wide	Scale rating
Ti di	oth, Coated; and pe, Rubber Coati Rylon, For Pneu tic Life Rafts NII-C-2726F (URA)	<b>.</b>		Min Max		W F	W F	T(O)E)	WF		70°F-40	PF	<b>D3.0</b>	
	Type J- Tube fabric, 13.0 oz. max.	3.0 oz. Nylon, MIL- C-19377 (straight). 1.6 oz. Nylon, MIL- C-7020, Type II, (bias): except that silicone oil shall not be used and re- quirements for per- manence and stab- ility of finish shall not apply.	new plantation rubber. Suitably compounded & pro- perly vulcanized so that max. life under service con-		⊕ •	300 250 (initial) 85% 85% after acc. weathering 90% 90% fter oxyge aging)	;)				(a	(in	14 itial) 8 ir agid	ng)
	fabric, 7.0 oz.	1.6 oz. Mylon, MIL- C-7020, Type II (see restrictions above).	be used. No fillers processes, or any	0.85 d fe be	<b>-</b>	100 (initial) 90% fter oxyge					(a	(in:	10 itial) 7 xygen	aging)
		5.5 oz. Nylon, MIL- C-20696, Type II.			± <u>}</u> (₁	335 280 (initial) 80% 80% after acc. weathering		100					18	

NOMENCLATURE	COATING	SHADE AND COLORFAST NESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-27268 Type I Type II Type III	Cloth shall be spreader coated, using no fewer than 5 coats/ oz. of rubber/sq yd of surface covered. Rubber film shall be divided equally between plies that are doubled together. Cloth shall be cured in a liner of closely woven cloth of high thread count. Soapstone liners shall not be used.	Color - Unless otherwise specified, color of finished cloth and tape shall be Orange-Yellow conforming to color No. 33538 of Fed. Std. 595. Color pigment shall be incorporated in costing compound and shall be permanent for life of cloth. Pigment shall be of fineness to pass through standard 325 mish screen.	Types I & III: Cloth shall not be tacky after air aging (4.3.2.3). Cloth shall show no blocking (5872). Cloth shall not crack or flake at low temps. (4.3.2.2). Type I: Helium permesbility: Initial-5.0 L/M ² /2 ¹ hrs. max. After aging: 7.0 L/M ² /2 ¹ hrs. max. Elongation: Initial-25%; After acc. weathering-22%; After oxygen aging-25%.	Intended Use - In the fabrication of pneumatic life rafts. Specifically intended for use in fabrication of Type F-2R, twentyman, pneumatic life raft. Rubbelized floor cloth should be used for all patches or pockets attached to raft.

NOMENCLATURE	3ase Cloth Specifications	Type of Coating Compound		lack			Recis (5) After Flower	03)	bility Cm. Max. Worp	gth Ptale	sion Ib/2" wide	Scale rating
Cloth, Coated, Glas			Min Max		WF	WF	 WF	WF	707-40	7		
Aluminum Face, Sili cone Rubber Back MIL-C-27347 (USAF		Eilicone rubber. Vacuum distilled	16 <u>+</u> 2	(1)	150 150	(5134) 3 3		•	•			

yarns. Weight: 3.5 +0.5 oz. Thickness: 0.009 in. max. Weave: Crowfoot satin. Yarns/Inch: 64 in the warp; 60 in the fill. Breaking strength: 130 lb. in the warp; 90 lb. in the fill.

aluminum.

Clota, Coated, Butyl, Polyamide, Nonmelt, Fuel and Oxidizer

0.009 in. max. Yarns/Inch: 64 in warp and fill.
Breaking strength:
185 in warp and fill.

after which cloth shall be fully cured.

Resistant
MIL-C-38149 (USAF)Nonmelting, high strength polygmide.
Melting point: over 800°F. Weave: 2/2 basket. Weight:

0.009 in. max.

15 15 3 3

8.25 No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MI <b>L-</b> C-27347	Base cloth shall be evenly and uniformly coated on one surface with silicone rubber. On opposite surface shall be a highly reflective layer of aluminum, directly adhered to warp face by means of a curable, highly flexible, solvent resistant adhesive bonding compositions.	tion.	Neither coating shall show evidence of cracking, stiffening, flaking, or separation in cold crack (4.6.1.1). Thickness: 0.015-0.0015 in. There shall be no evidence of blocking (5872). Stiffness: 0.0130 in-lb max. (5202). Thermal radiation resistance: no direct thermal transmission; no visible damage; no visible light transmission (4.6.1.2). Flame resistance: Flame time- 10 sec. max.; Glow time- 2 sec. max. (5902).	Intended Use - As a thermal curtain to protect personnel and equipment while exposed to high intensity thermal radiation for a brief period of time.
MIL-C-38149	Coating shall be app- lied evenly to both sides of base cloth,	Color - Coating shall be pigmented a tan color. Both sides of coated	(4) Thickness: 0.017 in max. Abrasion resistance: 300 cycles min.	Intended Use - In the fabrication of missile fueler's protective clothing.

sion resistance: 300 cycles min. (5306). No visible cracking or flaking after exposure to low temps. (5874). After glow: 20

temps. (50/4). After glow: 20 sec. max. Toxic gas permeability: Fuel- 0.01 mg/in (max. leakage) (4.6.5). Oxidizer- 0.01 mg/in (max leakage) (4.6.5). Coated cloth shall be essentially odorless (4.5.2).

clothing.

cloth shall match standard

shade.

NOMENCLATURE	Specifications	Type of Coating Compound	Overal Weigh Oz/ Sq Yd (5041)	t Inci	Lb (5	ength hin.	Streng	ure High (5512)	Resis (59 After Flame sec min	Max "	Flexi – bility Cm. Max. Warp (5204) 70°F-40	gth Pthin. (5122)	sion Ib/2" wide	ing Scale rating
Vinyl Costed NIII-C-40039B	Rylon twill, 1.6 oz., heat set, conforming to Type I of MIL- C-277.	Polymerized or copolymerized virgin vinyl chloride resin, plasticized with phosphate or ph- thelate ester plasticizers ex- clusively. Pig- mented.	6.0 7.			80	S# 1		l) ngth or	1	8	(: (mft:	6 initia 5 er wate ersion	er

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIT-C-40039B	coated on both sides. One side shall be more	Color - Color of coated cloth shall be (G-207 and shall match standard sample for shade and luster(3).	(4-5) Cloth shall exhibit no softness, tackiness, stiffness, or brittleness after weathering (4,4.9). Cloth shall not leak (4.4.5). Abrasion resistance: no loose fibers of base cloth shall be exposed in center 1 in. of abraded portion (4.4.8). There shall be no cracking, flaking, or separation of coating from base cloth after exposure to low temps. (4.4.6).	Hood.

NOMENCLATURE	Same Cloth Specifications	Coaring Compound	Overall Weight Oz/ Sq Yd (5041)	Width Inch	Breaking Strength Lb. Min. (5100)	Strangth	Press- ure	Resis	93)	bility Cm. Mex. Werp	PIR	sion tb/2" wide	rating
Cloth, Laminated, Fabric, Air- Retaining Mattress			Min Max	(7)	WF	W F (5134)		WF	WF	70°F 40	°F		2 -
MIL-C-40050 (CE)	Cloth shall be free of all sizing & for- eign matter. Air	Not less than 60%	23.40 (i	57 air ma tress	-	6 10					(1	4.5 Lb/1")	

of all sizing & foreign matter. Air mattress cover cloth 30 den., type 300, high tenecity nylca nigh tenseity nyich yarn. Weave: plafn 1/4 rip-stop. Yarns/ Inch: 105 in warp and fill. Breaking strength: 45 lb. in warp and fill. Tearing strength: 3 lb.
in warp and fill.
No splices permitted. Air-mattress cloth: 2 backings of plain weave cloth of 75 ends/inch of 70 den. 2-ply, type 300 high tenacity nylon yarn in the warp and not exceed 10% 40 picks of 210 den. after acc. aging type 300 yarn in the of 96 hrs. or type 300 yarn in the of 96 hrs. or fill, joined by 30-32 acc. weathering pile threads/sq in, included as warp yarns in plain weave of both backings. Pile threads of squal length throughout. One length without splices/unit package.

Not less than 60% by volume of chloroprene. Balshall be only softeners, curing agents, antioxi-dants, and reinforcing materials and shall pass through a 100-mesh sieve conforming to RR-S-366. Water absorption shall be held to a min. Tensile strength: 1800 psi. Elonga-tion: 500% min. Loss of tensile strength and elongation shall

(air mattress cloth) 53 (cover cloth)

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness,	NOTES
				(Not Specification Requirements)

MIL-C-40056

Clot's shall consist of air mattress cloth sandwiched between 2 plies of cover cloth. See spec. for details of construction. Compound small be applied at the rate of not less than 7 spreader coats for each bz. of compound/sq yd of cloth.
Tolerances: +5% for each
weight of coating compound & for each weight
of finished cloth. Cloth
shall be cured to have a smooth, even finish. Curing in sompstone will not be permitted. Proofed cloth shall not be overcured or show excessive watermarks. Ingredients such as sompstone, talc, paraffin, etc., which will affect strength of cemented seams or joints shall not be embedded in surface of cloth. Compound, outside proofing, or cloth shall be treated to avoid formation of or neutralize any acid which might deteriorate strength or service life of cloth.

Color - When specified, compound for outside or exposed coatings shall have a compatible coloring agent added. Color shall match Olive Drab Color 7 in conformance to MIL-D-504, and shall have an infrared reflectance of 12.0-5.0% in both spectral regions.

Air mattress cloth shall have a 2 in. selvage on each side. Cloth shall not crack when Cloth shall not crack when folded on itself at low temps. (4.4.3.3). Fermeability of each side of cloth to hydrogen shall not be more than 6 L/M/

Intended Use - In the manufacture of pneumatic structures.

NOMENCLATURE	Zana Cloth Specifications	Type of Coating Compound	Overett Weight Oz/		Breaking Strength Lb. Min.			Rook	ame stance 903)	Flexi- bility Cm. Max.	Burst- ing Stren-	sion Ib/2"	Scale
22.4			Sq Yd				ure High	After Flore	eleagt		gth Pta bin		rating
Cloth, Leminsted.			(5041) Min Max	L	(5100) W F	(5132) W F	(5312)	WF	WIF	70°Fi-40		5970	D872
Vinyl-Nyloz, Righ Strength, Fierible NII-C-430068, And.	1					•			1				
Type I- Hegyy duty	Open mesh woven	Vinyl film shall	17.1 19.			(5134) 93 93	425	5 5	4.5 4	.5 14 20	PO)	25	No. 3
Class 1- Regular Class 2- Special	wlon eloth.	conform to requirements of Type II of L-P- 375. Plasticizers other than those		(aft	(initial) 177 177 er abrasic 162 162 acc. wear							20	
Type II. Medium du	AT	specified may be used subject to	9.0 11.	•	90 90		200	5 5	<b>7</b> 7	9 15		20	No. 3
Class 1- Regular Class 2- Special	•	the approval of the contracting officer,	,	7	(initial) 45 45 er abrasio	20 20				<i>,</i> - <i>,</i>		15	3.00
				(after	acc. Vea	thering)							
Type III- Light dut Class 1- Regular	<b>3</b> *		5.4 6.		75 75		175	5 5	7 7	8.5 11		15	No. 3
Class ?- Special				(aft	(initial) 23 23 er abrasi 41 41 acc. wea	15 15 on)						12	

NOMENCLATURE	COATIF	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Mot Specification Requirements)
MIL=C=k3006B Type I Class 1 Class 2 Type II Class 2 Type III Class 2 Type IIII Class 2 Class 2	Leminated cloth shall consist of the open mesh mylon cloth leminated between 2 layers of vinyl film. Finished cloth shall have one comparatively smooth side. The other side shall be rough, in that the areas located over the points at which the yarns cross will be raised, while areas between yarns will be depressed Smooth, side shall be face side.		(4-5)	Intended Use - For general use in the fabrication of protective covers. It may be reinforced for such items as truck covers or tar paulins made of this material, but does not cover the articles them selves. Cloth provides high tear strength. Design concepts should include, however, means of securing end items to minimize excessive wind whip.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/ Sq Yd (5041)	Width	Lb.	aking ingth Min.	Tecring Strength Lb.	Hydro- static Press- ure High (5512)	Resis	03)	bili Can. Wa	ty Max. rp	Pinin	sion 16/2" wide	Stock- ing Scale rating 5872
Cloth, Coated, Cotton, Resin Modified Butyl Coated, Acid and Fuel Resistant			Min Max		W	F	WF		WF	WF		-20°			
##12-6-43062A	Mercerized cotton airplane cloth con- forming to MIL-C- 5646. Cloth shall not contain more than 0.003% copper and 0.0015% manganese	Resin modified butyl rubber. Pigmented.	10.0 11.	0	80	80		80 (initial 60 fter str of cos 60 ter cold	ength	r)	7.5	8.0		7	No. 1

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-43062A	Base cloth shall be coated on both sides. Approximately 25% of coating shall be applied to one side & the balance to the other side. After coating, cloth shall be dured on both sides with whiting, talc, or other finely divided mineral material which does not support mildew growth to produce a dull, uniform finish.	Color - Coating compound shall be pigmented Black.	(4-5) hitric acid surface tack, rating: No. II (4,4,5,5). Abrasion resistance: no visible loose fibers of base cloth shall be exposed in center 1 in. of abraded portion (4,4,3). Fuel resistance: no cracking, stiffening, flaking, or separation of coating from base cloth (4,3,2). Cloth shall not become soft and tacky or stiff and brittle after acc. weathering (4,4,4), Acid resistance: no evidence of cracking, stiffening, flaking, separation of coating from base cloth or change in color of indicator paper (4,4,5,3). Vulcanized coated cloth shall be free of objectionable odor. Odors normally attributed to modified butyl rubber shall not be regarded as objectionable. (4,4,6).	resistant to rocket fuels and oxidizers and suitable for use at low temperatures. Protective clothing shall be assembled

Cloth, Costed, Rylon, Min Max W F W F W F 70°F-40°F Vinyl Costed (For Air	NOMENCLATURE	Base Clotk Specifications	Type of Coating Campound	Overall Weight Gt/ Sq Yd (5041)	men	Breaking Strangth Lb. Min. (5100)	Strength	Press- ure High	After Flume	O3) Char length	Can Max. Warp	ing Stren- gth	sicn lb/2° wide	ing Gode rating
		<u>Ir</u>		Min Max		WF	WF		WF	WF	70°F -40	PF		

Cloth shall be either: Type I; continuous multi-filement bright high tenacity worker. 2/2 basket weave. Yarns for warp and fill shall be 840+20 denier. Weigh: 5,5-6,0 oz. Yarr; Tuch: 2% in the warp; 26 in the fill. Breaking strength: 275 in warp and fill. Type II; continuous multifilement bright high tenacity aylon. Modified carford weave in which 2 ends, Cloth shell be Modified caford weave in which 2 ends, weaving as 1, alter-nate across warp with 2 ends weaving plain. Warp yarns shall be 840420 den., and fill yarns shall be 1680 +80 den. Weight: 5.5-5.0 oz. Yarns/Inch: 24 x 13. Breaking strength: 275. pH: 5.9 - 6.5.

Virgin vinyl chloride or vinyl chloridearetate cocolymer plasticized with phthalate or phosphate ester planti-cizers exclusively. Pigmented.

300 5 5 No. 3 10 (dry) (after mcc. veather.) (wet)

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
NIL-C-43086	Cloth whall be conted	Color - Finished cloth	(4-5)	Intended lies - In the fabrication

on both sides. Face of cloth shall be coat-match color 17855 of Fed.
ed with 8.0-9.0 oz/sq
yd. of coating, and
Uolorfastness - There shall yd. of coating, and back shall be coated with 5.0-6.0 oz/sq ya of coating.

shall be white in color to

be no appreciable change in color after acc. weathering (4.4.7).

(4-5) There shall be no cracking at  $+10^{\circ}$ r (4,4,3), oil resistance: no leakage (4,4,4). Aromatic carbon resistance: no cracking (4,4,5). Coth shall not crack when folded sharply on itself or show any signs of blooming or bleeding after acc. weathering (4,4,6,1).

of Tent, Air Supported, for Track and Aquisition Radar (Conus) and for other air supported shelters where intended use does not involve erecting and striking at temperatures below minus 10°F.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Compound	Overall Weight Oz/			Tearing Strength Lb.	static Press-	Resid	ame stance 903)	bili Cm.	Mox.		Artigo sion Ib/2" wide		de
			Sq Yd				ure High	• •	Char		MD	gth Pts.	W:00	reta	19
			(5041)		(5100)	(5132)	(5512)		Max		204)	(5122)	5370	587	72
Cloth, Coat.d (Chloroprene Base Coated, Chlorosul- phonated Folyethyle Top Coated) MIL-C-43285 (GL)	<del></del>		Min Max		WF	WF		WF	WF	70°1	40	F			1
Type I- Cloth, Polyester Class 1- Clive Green face,	Polyester conform- ing to Type I of MIL-C-43286.	Black base coat- ing & green & white undercoat- ing shall be chl- oroprene rubber	13.0 15.0	(1)	(5102) 160 160	(a) 3500 3000 (grams)	(a) 200	3 3	4.5 4.		20	(6	16 iry)	No.	2
Black back. Class 2- White face, Black back.		plasticized only with phthalate or phosphate ester	13.0 15.0	(1)	160 160	3500 3000	200	3 3	4.5 4.	5 13	20	(1	12 wet)	No.	5
Class 3- Olive Green face, White back.		plasticizers. Pigmented. An or- ganic isocyanate may be added to	15.0 18.5	(1)	160 160	3500 3000	200	3 3	4.5 4.	5 13	20		**	No.	2
Type II- Cloth, Nylon	Nylon conform- ing to Type II of	black base coat- ing to achieve				(a)	(a)			(1	a)				
Class 1- Olive Green face, Black back.	MIL-C-43286.	required adhesion. Green and white top coating shall	13.0 16.0	(1)	275 275	10000 1000	00 200			13	20	(	16 (dry) 12		5
Class ?- Wnite face, Black back.		be chlorosulphon- ated polyethylene plasticized only	13.0 16.0	(1)	275 275	10000 1000	00 200			13	20	1	(wet)	No.	2
Class 3- Clive Green face, White back.		with phthalate & phosphate ester	16.0 20.0	(1)	275 275	10000 1000	00 200			13	20		"	No.	2

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-43285 Type I Class 1 Class 2 Class 3 Type IJ Class 1 Class 2 Class 3	Class 1 cloth shall be coated i ne seq- uence: (a)E_ch side coated with 2+.25 oz/ sq yd of black base coating. (b)Face side coated with 2-7+.5 oz/sq yd of green undercoating. (c)Face side top coated with 2.25+.5 oz/sq yd of green top coating. Class 2 cloth shall be coated in the sequence: (s)Each side coated with 2+.25 oz/sq yd of black base coating. (b)Face side coated with 2.7+.5 oz/sq yd of white under- coating. (c)Face side top coated with 2.25+.5,25 oz/sq yd white top roat. Class 3 shall be coated in the sequence: (a)Each side coated with 2+.25 oz/sq yd	Color - Black base coat shall be pigmented a suitable shade of black. Green undercoating shall be pigmented to match Olive Green 207. White undercoating shall be pigmented to match color number 37875 of Fed. Std. 595. Green top coating shall be pigmented to match Olive Green 207. White top coating shall be pigmented to match Olive Green 207. White top coating shall be pigmented to match color number 37875 of Fed. Std. 595. Standard samples available for all shades (3).	(a)See spec. for requirements after testing. Coated cloth shall not become stiff, brittle, soft,	Intended Use - In the manufacture of air supported shelter is constructed with 2 layers as follows: Class 1 cloth is used for the outer layer, and the Olive Green coated side of the cloth is exposed on the outside of the rhelter. Class 2 cloth is used for the inner layer and the white coated side of the cloth is exposed on the inside of the shelter. Class 3 cloth is used for end closure areas.
	black base. (b) Face coated with 2.7*.5 oz/sq yd of green under- coating. (Continued)	187.		

NOMENCLATURE	Baco Cloth Specifications	Type of Cooling Compound	Overell Weight Ge/ Sq Y6 (5041)	Width Grecking Insh Strength Lb. Nos. (5100)	Teering Strength Lb. (5132)	High Plane (5003)  We High (5512)  Free High (5512)	Flori - Burst Adho B hility ing cion is Cm. Max. Stron-Bb/2 S Warp gth wide ru (5204) (5122) 5670 S	tock- ng loads sting
Cloth, Costed (Chlorosus Bee Costed, Chlorosul- bacted, Chlorosul- for Costed) HIL-C-3285 (GL) (Costinued)			Min Mex	WIF	WIF	w F  w F	70°F 40°F	

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness,	NOTES
			Shrinhage, etc.)	(Not Specification Requirements)

MIL-C-43285 (Cont'd) (c)Face side top conted with 2.25±
.5 oz/sq yd green top conting. (d)Back side conted with 1.25±.25 oz/sq yd of white underconting. (e)Back side top conted with 1.25±.5 oz/sq yd white top conting. All types and classes shall be dusted after conting and before vulcanising with whiting, talc, or other finely divided mineral material which does not support mildew growth.

	Type of Cocling Compound	Overall Weight Oz/ Sq Yd (5041)		Breaking Strength Lb. Min. (5100)	Strongth	Hydro- static Press- size High (5512)	Renistance (5903) After Ci Flameles acc Me		ing si Stren- ib	on log /2 See do retio	7 2 2
Cloth, Coated, Cotton, Vinyl Chloride or Chloroprene Coated RIL-C-43410 Cotton silesia of MIL-C-326. Regulrement for sequences	I copolymerized vir-		(1)	<b>W F</b> 50 50	W F	lu)	2 2 3.5 (initial 2 2 5.0	(0°) 3.5 12 15	8	No.	2

Cotton silesia conforming to Type I of MIL-C-326. Requirement for seam efficiency shall not apply. Cloth to be coated with chloroprene rubber shall have a copper content of not more than 0.003\$ and a mangenese content of not more than 0.9015\$. pH: not less than 5.5.

Polymerized or copolymerized virgin vinyl chloride
resin or chloroprene rubber.
Vinyl compounds
shall be plasticized with phosphate or phthalate
ester plasticizers
exclusively. All
compounds shall
be pigmented. Chlorinated paraffins
and polychlorinated
polyphenyls may be
used as flame inhibitors. Use of
water soluble ingredients and reclaimed rubber is
prohibited.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinhage, etc.)	NOTES (Not Specification Requirements)
MIL-C-43410	on both sides. One side shall be costed	Color - Bese cloth; color shall be natural. Coated cloth; color shall be CG-207. Standard sample available (3).	(4) Coating shall show no indications of cracking, flaking, or separation from base cloth after acc. weathering. Chloroprene coated cloth shall not become soft and tacky or stiff and brittle after acc. aging (5852). Water absorption of both types: 1\$ max (5504)	fighting personnel.

A STATE OF THE STA

NOMENCLATURE	Bose Cloth Specifications	Type of Coating Compound	Overall Weight OE/ Sq YK (5041)	1 12	Mile.	Tearing Dirength Lb. (5132)	Press- ure High	A for	(73) Cher	Can, Mex.	ing Stren- gth Ptg.	sior. Ib/2" wide	ing Scale reting
Cloth, Silica, Phenolic harregnets	<u>d</u>		Min Mex	W	F	WF		WF	WF	70°F-40	PF.		

MIL-C-51251 WF) Silica cloth conforming to CS 9349, conforming to
Type II, except MIL-R-9299,
that it shall contain a min. of 965 vilica.

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness,	NOTES
			Shrinkage, etc.)	(Not Specification Requirements)

MIL-C-81251

Uncured resin-impregnated cloth shall contain 28-3% resin solids by weight. Uncured resin-impregnated cloth shall contain 4-7% volatile matter by weight.
Uncurei resin-impregnated clot shall have a resin flow of 15-21%. Cured cloth shall have a min. ave. flexural strength of 19000 psi at 75-50°F. No individual value shall be below 13000 psi (method 1031 of Fed. Std. 406). Cured cloth shall have min. ave. tensile strength of 12000 psi at 75-50°F.
No individual value shall to below 11000 psi (method 1011 of fed. Std. 406). Cured cloth shall have a min. spe iffic gravity of 1.67 (method 5011 of Fed. Std. 406).

Inte led Use - In rocket motors.

		Oz / Sq Yd (504i)	(5100)	Lb. (5132)	ure Af	(59 to	TOY ROLL	Warp (5204)	Pala	wide	Scale roling 5872
Cloth, Conted, Asbestos and Cotton, Herringbone Tvill, Aluminized MIL-C-82249A Woven	Vacuum deposited	- 24.0	 <b>W F</b>	<b>W</b>   <b>F</b>	w	F   V 5	•	70°F 40	<b>~</b> F		No. 1

Woven from yarns of Vacuum deposited - 24.0 (1) 105 78 blend of asbestos & aluminum. cotton (Underwriter's Crade). Weight: 18.0-20.5 oz. Yarns/ Inch: 33-37 in the warp; 24-29 in the fill. Weave: 3/1 herringbone twill reversing on 15 ends. Asbestos content: 80% min.

Cloth, Coated, Glass, Chloro-prene Coated MIL-C-82254

Class cloth conforming to Class C, form 4, Fiber D, Cloth No. 116 of MIL-Y-1140.

(7)
Chloroprene rub- 24.0 28.0 38 120 120 2700 1100 250
ber, plasticized. min. (grams) (initial)
200
(after weather-ometer)

No. 3

and the second s

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-82249A	Coating shall be applied to face of cloth (warp flush side) by means of a suitable adhesive. Resulting film shall have a highly reflective surface and shall be aliasion resistant.		(4) Stiffness, Bending moment: 0.055 in-lb. max. in warp and fill (5202). There shall be no sep- aration of coating from base cloth (4,4.3). Coating shall not crack at low temps. (4.4.2). Feflectivity after abrasion: No visual discoloration of blotting paper; no evidence of flaking of coating (4.4.1).	Intended Use - In the manufacture of protective cicthing for fire-fighters and other heat protective, proximity garments.
MIL-r-82254	Compound shall be applied equally & uniformly to both sides of cloth. Coated cloth shall be cured. After vulcanizing, cloth shall be dusted with whiting, talc, other finely divided mineral material which does not support mildew growth.	of Fed. Std. 95 or shall	(4) Thickness: 0.022-0.026 in. Selvage edges may be trimmed, provided cloth meets speci- fied width.	Intended Use - In the manufacture of protective coverings and items having similar uses. Cloth is not intended for use in wearing apparel or other items which may come in frequent or prolonged intimate contact with skin.

NOMENCLATURE	Base Cloth Specifications	Type of Coating Campount	Or arett delight Oz/ ~9 Yd	Width		Tearing Strength Lb.	Hydro- static Press- ure High (5512)	LABORE		Flexi- bility Cm. Max. Werp	gth Pthia	wide	Scale reting
Cloth, Costed, Synthetic Rubber (Mitz and Polychloroprene MIL-C-822)5 (MV)	110	<u> </u>	Min Men		W F	WF	(\001E)	WF		70°F-40		<b>D</b>	50,2
Type I- Cloth, Rylon, Flat Enit, Polychloroprens Conted.	Hylon, flat knit. Weight: 6.5±1.0 os/sq yd.	Polychloropres e rubter. No mat wral rubber, re- claimed rubber,	- 19.0	(1)		,	70 nitial) 65 weather		i		(5120) 100	5	No. 3
Type II- Cloth, Cotton, Duck, Polychloroprene Conted.	Cotton duck conforming to Type I, Ro. 10, hard texture of CCC-C-419.	or synthetic rubber other than polychloro- prome shall be used. Plastic- ized. Pigmented.	<b>19.</b> 0 <b>59.</b> 0	(1)	245 160 ¹	(grame) (	initial 250					5	No. 3
Type III- Cloth, Cotton, Duck, Hitrile Conted.	Cotton duck conforming to Type I, No. 10, hard texture of CCC-C-19.	Hitrile rubber.  No natural, re- claimed, or syn- thetic rubber other than nit- rile shall be used. Plastic- ised. Pigmented.	- 43.0	(1)	245 160 l	4200 3000 (after w	initial 200					5	No. 3
Type IV- Cloth, Cotton, Air- plane, Poly- chloroprene Costed.	Cotton airplane cloth conforming to MII-C-5546, except require- ments for length of roll, cut, and dope shall not smmly.	Polychloroprene rubber. See above.	24.5 29.5	(1)	90 90		150 initial 150 reatherq					5	No. 3

NOMENCLATURE	COATING	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as thickness, Shrinkage, etc.)	NOTES (Not Specification Requirements)
MIL-C-86255 Type I Type II Type III Type IV	lied equally and uni-		(4) Thickness- Type I- 0.021 in max. Type II: 0.047-0.053 in. Type III: 0.038-0.062 in. Type IV: 0.023-0.027 in. The selvage edges may be trimmed, provided cloth meets specified width.	Intended Use - As a protective covering and repairing fuel cells.

#### REFERENCES

### COATED CLOTHS

### Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
2811	Acidity (18), Potentiometric method.
	mstruction
5030 5041	weight of cloth.
	) ( conicel
5100 5102 5104 5120 5122 5134 5136 5202 5204 5304 5306	Swength and elengation, weaking, of woven cloth, grab method.  Swength and elengation, breaking, of woven cloth, cut strip method.  Stringth and elengation, breaking, of woven cloth, ravel strip method.  Bursting strength, ball method.  Bursting strength, bandwist method (Elmendorf).  Tearled strength, began method.  Tearled strength, tred graid method.  Salifesth directional; self-weighting cantilever method (Clark).  Abra. Therefore, one; oscillatory cylinder (Wyzenbeek) method.  Abrasion resistance of cloth, rotary platform, double head (Taber) method.
	Air Fermeability and Water Resistance
5450 5504 5512 5516	Air permeability, calibrated crifice method (Frazier). Water resistance, (coated cloth) spray absorption. Water resistance, (coated cloth) hydrostatic pressure, high range. Water resistance, hydrostatic pressure, water permeability.
	Shrinkage Resistance
5552	Shrinkage in laundering; sloth other than cotton and linen.
	Colorfastness
5614 5630 5651 5660	Laundering of wool, silk, rayon cloth; Launder-Ometer. Water, cold. Crocking of cloth. Lignt; accelerated (Fude-Ometer).
	Milder Resistance
5762	Mildew resistance; soil burial method.
	Deterioration Tests
5804 553 <b>1</b> 5850 5 <b>852</b> 5872 5872 5874	Weathering; accelerated (National Weather Unit). Leaching; minimim exposure. Aging; accelerated oven method. Aging; accelerated oxygen method. Flexibility after heat. Temperature, high; blocking. Temperature, low; coated cloth.
	Fire-Pesistance Thermal Tests
5903 5910	Flame resistance of cloth; modified vertical Burning rate of cloth; 36° angle.
	Adhesion, Coated Cloths
5950 5 <del>3</del> 70	Adhesion, plied (double texture) cloths. Adhesion of coating; solvent method.

#### GENERAL NOTES

#### CORDAGE

The following perenthetical numbers are utilised throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

As specified.
 Pryproduction sample.
 Colorantching.

(%) Sulfur dyes.
 (5) Nonfibrous, extractable matter, chloroform soluble.
 (6) See specification for applicable tolerances.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diameter Inches	Number of Stronds (Carriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	£ndı. per	Picks per
				Min.			(4102)	(4102)	(4502)	Carrier Min.	Inch Min.
Laces, Footwear, Cotton						Min Max.	WF				
V-L-51b		Width									
Type I- Mercerized Class A	54/2	(+1/32")		1,1,			70			•	
Class B	50/2 40/2	7/32 7/32 7/32		64 44			70			2 1 2	32 38 26
Class C	40/2	1/32		44		•	70			2	26
Type II- Soft fin. Class A	20/2	8/32		32			120			2	16
Class B	20/2	11/32		32 44			150			<b>2</b> 2	16 16
Type III- Glazed fi		e. e									
Class A Class B	20/2 20/2	€/32 11/32		32 41,			120 150			2	16 16
Type IV- Waxed fin.	•	, ,					-,-			•	10
Class A	24/2	7/32		40			110			2	55
Class B Class C	26/2 30/2	7/32 7/32 7/32		44 48			110 110			<b>2</b> 2 2	<b>2</b> 2
Class D	30/2 28/2 30/2	10/32		44			110			2	<b>1</b> 6

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
V-L-51b Type I Class A Class B Type II Class A Class F Type III Class A Class B Type IV Class A Class B Class B Class B Class B	Type I laces shall have a smooth and silky luster.  Type II laces shall have a soft finish. Type III laces shall have a glazed, smooth glossy finish. Type IV laces shall he waxed by immersion in a molten wax solution. Wax shall therewax solution. Wax shall therewaxing, laces shall increase in weight not less than 17.5 nor more than 33.5%. Finished lace shall contain a min. of 0.04% to a max. of 0.09% metallic copper as copper-8-quinolinolate. See spec. for types of waxes and wax solution amounts.  PH: (All types and classes) 4.0 - 8.0 (2811).			Intended Use - In to twear and other items.

NOMENCLATURE	Commercial Number or Size	Circum- ference inches	Diameter Inches	Number of Strands Carriers)	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	Ends Per Carrier	Picks Per Inch
				Min.			(4102)	(4102)	(4502)	Min.	Min.
Iaces, Footwear, Mylo	n.	Width				Min Max.	WF				
Type I- Spun mylon Class 1- 7/32" wide, flat		(+1/32") 7/32		1,1,			95			1	38 38
Class 2- 10/32" wide, flat		10/32		44			175			2	26
Type II- Bulked filement nylon Class 1- 3/32"			3/32	16			100			3	28
diameter, round Class 2- 8/32" wide, flat		8/32	3/32 (*1/32)	44 carriers			190			2	17
				braiding in pairs)							

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Such as core requirements, etc.)	NOTES (Not Specification Requirements)
V='-61d Type I Class 1 Class 2 Type II Class 1 Class 2		sample available (3). Colorfastness - standard sample available (.630).	Nylon for Type I, Classes 1 and 2 shall be spon from mylon staple and two tell into heply yarm. Mylon for Type II, Classes 1 and 5 chall be a 10 ienter filament yarm which a bom increased to the CPO-D5 denter by air colling. Braid shall be thousan braided without a form of the CPO-D5 denter by air colling, except for Type II, Class 2 which shall braid 1 pair over and 1 pair under. Type II, Class 2 which shall braid 1 pair over and 1 pair under. Type II, Class 2 braid shall be possess 1 and 2, and Type II, Class 1 incertail of the process 1 and 2, and Type II, Class 1 incertail of the process 1 and 1 pair under the process 1 and 2 and 1 the possess 1 and 2 and 1 an	of fost wear.

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max.	Water Absorption (4502)	Ends Per Carrier	Picks Fer Inch Min.
Halyards, Signal, Eraided, Treated MIL-H-266C, Amd. 1						Min Max.	WF				
Type I- Cotton Class 1- Without		( <u>+</u> ?/8")									
core 3/4" 1"		3/4 1		8 8	35° 23'		500 750			<b>4</b> 6	2-3/4 2-1/2
Class 2- With core	•	1-1/4		12	19'		675		45% max.	23	2-1/4

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as core requirements, etc.)	(Not Specification Requirements)
MIL-M-226C Type I Class 1 Class 2	(5) Class I halyards shall be mildew resistant treated with copper-8-quinolinolate conforming to T-T-616. Class 2 halyards shall be mildew resistant treated with copper-8-quinololate conforming to T-T-616. They shall be a water resistant treated with a solution of amorphous wax or paraffin wax, mineral oil, asphalt, pigments (when required), and a volatile solvent. Use of gilsonite, petrolatum or equivalent products is permitted. Halyards shall not produce oily stains (4.2. 5.5). Use of casein, glue, gum, starch, dextrin, water-soluble materials, paint dryers, resin or vegetable oils oxidizing oils or resins modifies with such oils run finiting or localing materials to specifically increase weight or ireaking strength is problified.		Class 1 halyards shall be braided without fore from a min. of 9-ply cotton yarm. Class 2 halyards shall be firmly braided around a cotton core from a min. of 3-ply cotton yarm. Number of strands in core: 23. Class 2 halyards may be braided with 18 carriers with 15 ends per marrier.	

MOMENCLATURE	Commercial Number or Size	Circum- ference inches	Diameter Inches	Number of Strands Carriers)		Hardness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	Ends	Picks Per
				Min.			(4102)	(4102)	(4502)	Per Carrier	inch Min.
Hild-3900 (SA)					Weight/144 yds.	Min Max.	WF				
			3/32 ± 1/64	9 or 16	21-2 ¹ 4 oz.		70			8 or 3	8 ar 16
Lines: Shot (For)											

Lines: Shot (For) Line-Phroving-Guns Tel-411a Type I- Flax-	( <u>+</u> 1/64)	length/			Strand	Elongation Load Lb.
Cable laid Class 1- Matural	1/8 7/32 9/32	175' 75' 45'	350 700 <b>11</b> 50	15 15 15	3 3 3	260 520 850
Type II- Hylon- Braided with core Class 1- Naturel	1/16 13/64	570°	230 230	32 30	:	180 <del>3</del> 00
Class 2- Waxed	3/32	400 •	415	15	8	370

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-1-395C	(5) Laces shall be smoothly finished and poliched.	Color - White 3041 or Khaki 3727 (1). Standard samples available (3). Khaki laces chall be yarn dyed with vot dyec. (1) Yarns of white laces chall be fully bleached. Bluing agents may be used. Colorfastmess- Khaki laces: ctandard sample available (4630-4650-4670).	Laces shall be firmly 3 uniformly braided without a core. When braiding with 9 carriers, weave shall be over 3 and under 1 (sash cord weave), and when braid-	
T-L-41la Type I Class 1 Type IJ Class 1 Class 2	(5) Class 1 line stall have a soft natur 1 finish. Class 2 line shall have a waxed finish.	Color - Unless otherwise specified, color shall be natural. When specific color is required, color shall be as specified. Standard sample available (3). Colorfastness - standard sample available for dyed line (4671).	Type I line shall be fabricated from that fiber.  Type II line shall be fabricated from mylon fiber having a min. melting point of 2440°. Loss in breaking strength after heat aging shall not exceel 10% of initial (4102).	Intended Use - In the operation of line throwing guns.

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Inches	Number of Strands Carriers		Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	Yarns Fer		in I
	0.25			Min.			(4102)	(4102)	(4502)	Carrier Min.		otal Cord
Cords, Cotton; Genera and Special Purpose, Sash and Venetian Bli T-C-571d	•					Min Mox. No. of Core Yarns	₩F				Min.	Max.
Type I- General purpose and sash cord (dyed and undyed) Class 1- Natural f Class 2- Folished Class 3- Water & m dew resistant fin. Sizes:	fin.	(	( <u>+</u> 1/ <i>0</i> +)	0	Classes 2 & 3			Classes 1 o Classes 2 & 3				
Sizes:	5 6 7 8 10 12		1/8 5/32 3/16 7/32 1/4 5/16 3/8 1/2	9 12 12 12 18 18 18	201' 171' 190' 85' 66' 55' 54' 45' 44' 37' 27' 23' 20' 17'		100 160 240 300 370 560 720 1250	10 8		5 6 10 12 14	555555	19 19 19 19 19 13 13
Type III- Venetian blind cord (dyed an undyed)	d.		9/64	8		2	175		45% max.	6		
Type IV- Special purpose cord (natur or bleached) Class 4- Polished water resistant			5/32	12	8c.3°	5,3 ply	180	7	8% max.	5,3 ply		
Type V- Mail bag lacing cord Class 5- Special polished finish			0.167- 0.180	12	90.0'	5	240	13.5				

NOMENCLATURE	FINISH	SHADE AND COLORFAST NESS	OTHER REQUIREMENTS	NOTES
			(Such as core requirements, etc.)	(Not Specification Requirements)
T-C-571d Type I Class 1 Class 2 Class 3 Type III Type IV Class 4 Type V Class 5	(5) Class 1- Natural finish, in which no consistency or luster other than that inherent within the cotton cloth is required. Class 2- Fol. bea finish cord shall have a lustrous, smooth-dressed surface with no protruding fibers. All finishing and rlazing naterials shall be added after braiding. Class 3- Mildew resistant treated with copper-8-quinolinolate in conformance with T-T-616. It shall be water resistant treated with a solution of amorphous wax or paraffin wax, mineral oil, asphal, pigments (when required) and a volatile solvent. Use of gilsonite, petrolatum or equivalents will be permitted. Class h- water resistant treated, which will also produce a smooth, lustrous surfare with no protruding fibers. Class 5- given a Class 2 polished finish. Core yarns shall be impregnated with a 20% agreeds polyvinyl acetate.	cord shall e ratural, unbleached, her upeci- fic color is required, it shall be obtained by yarn dyeing & shall match standard sample. Clasm 3: 'hless other- wice specified, color of Class 3 cord shall be that imparted by treat- ment, when a shade is specified, it shall be obtained by yarn dyeing and shall match standard sample. Type III: Unless otherwise specified, color for Type III: Unless otherwise specified, color for Type III: thall be off-white app. matching color No. 12600 of Fed. Std. 595. Type IV- Color shall be natural (bleached yarn is acceptable). Colorfactness- To be specified in applications or in contract or order.	Cord shall consist of cotton yarns firmly and evenly braided around a cotton core. Types I and V shall be a solid braid weave. Yarn strand in jacket for Type V: 5. After water absorption, the brickness increase of Type I, Class 3 shall not be more than 10%. Elongation after water immersion of Type IV whall be not more than '%. Use of casein, glue, g m, starth, dextrin, water-soluble materials, paint dryers, resin or vegetable oils, oxidizing oils or resins modified with sich oils is prohibited with the exception of materials necessary for poliching Class 2 ford.	Intended Use - Type I, Sizes 6, 7, 8 and 10 are intended for use with pulleys (See spec. for sizes of pulleys an max. loads). Type I, Class 1, Size 6 is intended for clothe lines. Type I, Class 5 cond is recommended for outdoor use. Type J cord may also te used for tent roper, awning line, truck rope, lashing, elevator gate cord, and for overhead doors. Type IV, Class 4 (special purpose cord is used for medical applications for applying traction in fracture frames.

Intended Use - Type I, Sizes 6, 7, 8 and 10 are intended for use with pulleys (See spec. for sizes of pulleys and max. loads). Type I, Class I, Size 6 is intended for clother-lines. Type I, Class I cond is recommended for outdoor use. Type J cord may also be used for tent roper, awning line, truck rope, lashing, elevator gate cord, and for overhead doors. Type IV, Class 4 (special purpose cord) is used for medical applications for applying traction in fracture frames.

	NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Dismetar Inches	Stronds Carriers)		Hardness	Breaking Strength Lib. Min.		Water Absorption	
J								(4102)	(4102)	(4502)	١
	Rope: Cotton 1-R-005/1b						Min   Max.	WF			
i	Class 1- Natural										J
	Class 2- Mildev Resistant Treated	<i>(</i> ,	nominal)								
	Sizes:	-	3/8 5/8 3/4 1-1/3 1-1/2 2-1/4			200' 90' 52' 2 <del>31</del> ' 13 <u>1</u> '		120 250 420 890 1450			
			2 <b>-1/</b> 4 3			3½'		3100 5100			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			Such as core requirements, etc.)	(Not Specification Requirements)
Class 2	(5) Class 1 rope shall be matural. Class 2 rope shall be mildew resistant treated with copper- 8-quinolinolate conforming to the requirements of T-T-616, except that the permissible copper content shall be 0.13- 0.40% copper as copper-8- quinolinolate.	wise specified color of the rope prior to treat	-	

NOMENCLATURE	Commercial Number or Size	Circum- ference inches	Inches	of Strands Carriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	
	<b>.</b>			Min.			(4102)	(4102)	(4502)	
Cords. Yarns and						Min Max	WF			

Monofilements Organic Synthetic Fiber MIL-C-572E, Amd. 2

Tyr: P- Polyamide.

Type SAR- Saponified acetate rayon (Forms C and Y only).

Type VC- Copolymer of vinylidene chioride and vinyl chloride (Form MF only).

Type PVCA- Polyvinyl chloride and its copolymers (Form MF only).

Type AR- Cellulose acetate (Forms C and Y only).

Type VCR- Viscose rayon (Forms C and Y only).

Type CTA- Cellulose triacetate (Forms C and Y only).

Form C- Cordage. Form Y- Yarns. Form MF- Monofilaments.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as core requirements, etc.)	(Not Specification Requirements)
MIL-C-572E			Literial shall consist of a	Intended Use- Type P: For

Type P
Type SAF
Type VC
Type FVCA
Type AP
Type CTA
Form C
Form Y

Form MF

specified, color shall

suitable synthetic properly formulated with plasticizers pigment, lubricants, or other materials as may be necessary to conform to the specifica-tion. See spec, for table of property values of synthetic-fiber electrical insulation.

applications requiring high tens ity, moisture resistance, and recovery. It is employed in lieu of silk in fiber sizes of magnet wire and cable applications. Should not be used outdoors. Type SAR: for applications requiring a very high dry tenacity and heat resistance. Type VC: For applications requiring a relatively high ten-acity and very high moisture resistance. Type IVCA: For cordage applications requiring cordage application requiring a high degree of clowation and good clastic recovery. Type AR: For applications not requiring high tenseity, but where use may be made of its dyeing properties, sea-water resistance, and thermoplastic properties. Type VCF: for applications requiring high tensity and actility take high baree of twint, type CTA lish haree of twist. The lish haree of twist. The where high electrical resistivity and high moisture resistance are required.

NOMENCLATURE	Commercial Number or Sice	Circum- ference Inches	Diameter Inches	Number of Strends Cerriors) Min.	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min. (4102)	Elongation % Max.	Water Absorption (4502)	
Rope, Jute T-R-592a		(nominal)	(Approx.)	,	_	Min Mex.	WF			

Type I- Pure jute rope

Type II- Mixed Jute rope Class 1- Matural Class 2- Mildew resistant treated Sizes:

				Type I	Type II
5/8	3/16	i	66.6'	270	243
3/4	1/4	ě	50.0'	360	324
1	5/16	9	34.5'	600	540
1-1/8	5/16 3/8	12	24.4,	81.0	729
1-1/4	7/16	15	19.0'	1050	945
1-1/2	1/2	21	13.3'	1590	1431
1-3/4	9/16	-1	9.61'	2070	1863
2	5/8		7.5'	2640	2376
2-1/4	3/4		6.0'	3240	2916
2-1/2	13/16		5.13'	3900	3510
2-3/4	7/8		4.45	4620	4158
3	1		3.71'	5400	4860
3-1/4	1-1/16		3.20'	6300	5620
3-1/2	1-1/8		2.78'	7200	6480
3-3/4	1-1/4		2.40'	8100	7290
3-3/4	1-5/16		2.09'	9000	8100
4-1/2	1-1/2		1.67'	11100	10000
5	1-5/8		1.34'		12150
5-1/2	1-3/4		1.12'		14300
5 <b>-1/</b> 2	2		0.93'	18600	16700

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as care requirements, etc.)	NOTES (Not Specification Requirements)
T-R-592a Type I Type II Class 1 Class 2	(5) Class 1 rope shall be natural. Class 2 rope shall be mildew resistant treated with copper- 8-quinolinolate. Treatment shall conform to the require- ment of T=-616, except that the pe.missible copper content shall be 0*13-0*40% copper as copper-8-quinolinolate.	ural shade imparted by mildev resistant treat- ment will be acceptable.		

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches		Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min. (4102)	Elongation % Max.	Water Absorption (4502)	
Rope, Manila and Siga T-R-605b, Amd. 1 Type M- Manila (Musa textilis) Class 1- "Becker" rope value Class 2- "Non-Beck						Min Max.	w F			
rope value Type S- Sisal (Agave sisalana) Sizes:  Manila Hard-lay rop 3-strand - Sizes:		(nominal)  5/8 3/4  1 1-1/8 1-1/4 1-1/2 1-3/4 0 2-1/4 2-1/2 2-3/4 3 3-1/4 3-1/2 4-3/4 4 4-1/2 5-1/2 6 7 8 9 10 11 12 5-1/2 4	(approx) (nominal 3/16 1/6 5/16 5/16 5/6 7/16 1/2 9/16 5/6 1/4 13/16 7/8 1 1-1/16 1-1/8 1-1/16 1-1/2 1-5/16 1-3/4 2 2 1-1/4 2-5/8 6 1-1/6 1-1/7 1-5/8 1 1-1/7 1-5/8 1 1-1/7 1-5/8 1 1-1/7 1-5/8		60.60 50.00 10.01 10.01 10.01 10.01 10.01 10.01 10.00 50.11 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00		### ##################################			
NOMENCLATURE	FI	NISH		SHAD	E AND	ОТН	ER REQUIRE	MENTS	N	IOTES

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as core requirements, etc.)	(Not Specification Requirements)

T-R-605t Type M Class 1 Class 2 Type :

Marila and risal rope requiring mild w resistant treatment shall be treated in accordance with T-T-12. Type M reper small be made from Musa textilis filter. Type M. Class I reper small be made from Musa textilis filter. Type M. Class I reper small baye a "Recker" value of not lead than a for each of the small end of the reper Medical and the reper medical reper in the rest from Acute should be made from Acute should be remain when speciallities to the small be expended to the formulation of the small be formulated to the small termination of the small termination of the small termination of the small termination of the small beautiful to the small termination of the

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diameter inches	Number of Strands Carriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	
				- Items			(4102)	(4102)	(4502)	
Rope, Yarn, and Twine Hemp T-R-00675a (Army-QM	-					Min Max.	WF			
Type 1- Rope, hemp, tarred. Class 1- Ratline		(6)								
Sizes:		(6) 3/4 1 1-1/8 1-1/4 1-3/8 1-1/2		6 9 12 15 18 21	33.3' 23.8' 17.3' 13.3' 11.3'		600) 900) 1400) 1800) 2100) 2400)	5		
Class 2- Seizing Sizes:		1/2 5/8 7/8		4 6 9 12	63.2' 50.0' 36.4' 28.6'		365 560 700) 955)	5		
Type II- Twine, hem polished, stainless Sizes:	12 18 24 36 48 60				1710.0° 950.0° 855.0° 570.0° 127.0° 290.0°		31 49 67 105 145 190			
Type III- Yarn, hem unfinished Sizes: (Continued)	1 2 3 4				350.01 430.01 490.01		180 145 120 95			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS  Such as core requirements, etc.)	NOTES (Not Specification Requirements)
T-R-00675a Type I Class 1 Class 2 Type II Type III (Continued)	Type I rope shall be tarred with pine tar. Tar shall be uniformly distributed throughout and shall not inpart accessive stickiness to the rope. Extractable matter: 10-22%. Type II twine shall be polished and stainless. Type III yarn shall be stainless.		Rope, yarn, and twine shall be made from hemp (Cannabis sativa) flax, or a combination of flax & rambe fiber.  Type I rope shall be 3-strand except for Class 2, Nc. 5 rope, which shall be 2-strand. Type II twine shall be of plie yarn.	

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diameter Inches	Number of Strands Carriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.	Elengation % Max.	Water Absorption	
	<b></b>			Min.			(4102)	(4102)	(4502)	
Rope, Yarm, and Twine Hemp (Continued) T-100675a (Army-QM	-					Min Max.	WF			
Type IV- Yarn, plies hemp tarred Class 1- Marline	d,									
Types: Navy					180.0'		175 160			
Commer.					220.0					
Medium					360.01		105			
Class 2- Spun yarn					120.01		03.5			
Types: 2-ply 3-ply					120,0' 85.0'		215 305			
2-224					0).0		30)			
Class 3- Houseline										
Types: Pouseline					160.0'		170			
Navy house	line				120.0'		225			
Class 4- Roundline					90.01		300			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			Such as core requirements, etc.)	(Not Specification Requirements)

T->-00:75a (Cont'd) Type IV yarm shall be tarred Type IV (See Type I).

Class 1
Class Class Class .

Type IV: Marline shall 'c 2-ply. Type IV, Class 3 yarn shall 'c 3-ply. Type IV, Class 4 yarn shall be 3-ply.

NOMENCLATURE	Commercial Number or Size	Circum- ference inches	Diameter Inches	Number of Strends Carriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	
				Min.			(4102)	(4102)	(4502)	i
Twine, Imregnated, Iacing and Twing (For Use in Electrical and Electronic Equipment MIT-7-713C				,		Min Max.	WF			1
Type N, waxed- Vegetable fiber Class 1 Class 2 Class 3					300 <b>'</b> 450' 600'		70 48 32	15 15 15		
Type P, unwaxed- Polyamide (nylon) Class 1 Class 2 Class 3					650' 950' 1400'		70 48 32	20 20 20		
Type P, waxed- Polymmide (nylon) Class 1 Class 2 Class 3					550' 750' 1100'		70 48 32	20 20 20		
Type SAR- Sapon- ified acetate Class 1 Class 2 Class 3					€501 9101 12801		70 48 32	5 5 5		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MTH- r=713C  Type N  Class 1  Class 2  class 3  Type F(unwexed)  Class 1  Class 1  Class 2  class 3  Type F(unwexed)  Class 1   Type N chall be un'formly mildew resistant and micro-crystalline wax treated. Mildew resistant treatment shall conform to Type I, Class 2 inhibitor of MIL T-3530 and may be applied with wax treatment. Treatment utilized shall not contain copper or mere any. Wax content: 10-15%. Type P waxed twine shall be uniformly treated with a micro-rystalline furgicidal wax. Treatment shall not centain apper or mereary. Wax content: 20-30%. N mildew prowth on auriane (%5.3).	specified, color shall be the natural unbleached color of the fiber & as naturally resulting from the treatment.	and noft hemp, or flax and ramie fiber. It shall be con-	Intended Use- Type N: For use where it is desire; that heat have no effect on strength or elongation, and where a relatively stiff twine is required. Type F twine is a strong, lightweight twine suitable for applications at relatively high humidity. Type SAR is a strong, lightweight 'wine suitable for applications where high temperatures and humidities are not encounter is das a min, stretch under tension.	

	NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diameter Inches	Number of Stronds Corriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.		Water Absorption (4502)	
- }		<u> </u>		<u> </u>		L	L-,	L	(*102)	(4502)	
	Twine, Cotton, Wrappi T-T-871d	ng					Min Max.	WİF			
-											
•	Type I- Natural										•
	Type II- Mildev resistant Class 1- Copper- 8-quinolinolate Class 2- 2,2, methylenebis- (4-chlorophenol)										
	Sizes (Plies):	3 5 8 12 16 20 24				6000' 4500' 3600' 3000' 2250' 1500' 1125' 900' 750'		5.5 8 10 12 16 24 32 40 48			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			Such as core requirements, etc.)	(Not Specification Requirements
T-T-871d Type I Type II Class 1 Class 2	Type I twine shall have a natural finish. Type II, Class 1 twine shall be mildev resistant treated with opper-8-quinolinolate in accordance with Type I, Class 1 of MIL-T-3530.  Type II, Class 2 twine shall te mildev resistant treated with 2,2 methylenelis-(4-chlorophenol) in accordance with Type I, Class 2 treatment of MIL-T-3530.	Color of treated twine shall be that imparted by treatment to natural		Intended Use - For general purpose use.

NOMENCLATURE	Commercial Number or Stac	Circum- ference inches	Diameter School	Mumber of Strende Carriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	Plies
				lgin.		·	(4102)	(4102)	(4502)	Per Strand
Twing, Cotton, Seine						Min Max.	WF			
Type I- Hatural										
Type IX- Mildew Resistant								•		
Size (Number):	6 9				3000' 2055'		12 18 24 30 35 45 60 70 86			<b>2</b> 3
	12 15				1545' 1245'		30 30			5
	24				1020' 780'		35 45			<b>6</b> 8
	<b>30</b> 36				600' 510'		60 70			10 12
	72 12				375' 255'		124			16 24
	9 12 15 18 24 30 36 48 72 84 72 81				210' 175'		140 156			10 12 16 24 28 32 36 40 48 56
	120 144				165' 150'		172 188			36 40
	168				135' 105'		214 238			48 56

NOMENCLATURE	FIN:SK	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
T-T-981c Type I Type II	(5) Type I shall have a natural finish. Type II twine shall be mildew resistant treated in accordance with Type I, Class 1 treatment of MIL-	Color - Unless otherwise specified, color of twine shall be natural. Color of Type II shall be that imparted by mildew resis-	post. So so s squadiming a co.	Intended Use - For general purpose use.

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diameter Inches	of Strands (Corriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Abscrption	
				Min.			(4102)	(4102)	(4502)	Ply
Twine, Linen T-T-891c						Min Max.	WF			
Type I- Natural finish, fine twine Plies: 3 4 5					2280' 1710' 1368'		3 <b>5</b> 50 65			3 4 5
Type II- Natural finish, mildew resistant, fine twi Plies: 3 4 5	ne				2280' 1710' 1368'		35 50 65			3 4 5
Type III- Polished finish, fine twine					30001		29			2
Type IV- Folished finish, mildew resitant, fine twine	5 <b>-</b>				30001		29			2
Type V- Natural finish rope twine				2	120'		325			2
Type VI- Natural finish, mildew resistant, rope twi	ne			3	120'		325			2
Type VII- Natural finish twine					₹00°		170			5
Type VIII- Natural finish, mildew resi tant twine	s <b>-</b>				3001		170			5

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as core requirements, etc.)	(Not Specification Requirements)
N-T-891c Type I Type II Type III Type IVI Type IV Type V Type VI Type VII Type VIII	Type I shall have a natural finich. Type II shall be mildev resistant treated in accordance with Type I, Class I of MIL-T-:550. Type III twine shall be polished and have a luctrons, smooth drensed nurtaem. Type IV twine shall be polished and shall be mildew resistant in accordance with Type I, Class I of MIL-T-:530.  Type V shall have a natural finish. Type VI twine shall be mildew resistant treated in accordance with T-T16.  Type VII twine shall have a natural finish. Type VIII twine shall be mildew resistant treated in a cordance with T-T16.  Type VII twine shall have a natural finish. Type VIII twine shall be mildew resistant treated in a cordance with Type I, Class I of MIL-T-:530.	te natural. When mildew		Intended Use- For cails, baling mattrees ctiteting, and wrappin

MOMENCLATURE	Commercial Number or	Circum- ference inches	Diameter Inches	Strands Carriers)	Length Per Lb. Min.	Hardness	i, making diventith i.h. tiln.	Elongation % Max.	Water Absorption	
				Min.			(4102)	(4102)	(4502)	
Nise, Jute				li+		Min Max.	WF		d	
Type I- Hatural fr	in.									
Size No.	1				1710'		20			
	2				1710' 1140' 855'		20 32 43 54 65 125 210 260			
	3				695'		43			
	5			3	570'		65			
	6			9	570' 285'		125			
	7.				170'		210			
	7A 8				140'		260			
	ğ				105' 85'		335 420			
Type II- Polished	fin.									
Size No.	1			•	1620		25			
	2 ±				1030		25 40 55 75			
	3				8001		55 75			
	. š				##0. 230.		100			
	6				3501		100 125 155 215 270			
	<u>6</u> 4				195		155			
	Ä				110'		215			
	ğ				85'		350			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			Such as core requirements, etc.)	(Not Specification Requirements)
T-T-911d Type I Type II	Type I twine shall have a natural finish. Type II polished twine shall have a smooth dressed surface.	Color - Twine shall be natural.	Trine shall be made of jute (Corchorus Olitorius or Corchorus Capsularis of both) or kenaf (Hibbiscus Cannabinus). Twine shall be stainless when tested (4.2.5.1). Twine shall be not less than 2-ply.	Intended Use - For wrapping purposes.

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Number of Strends Carriers) Min.	Langth Per Lib. Min.	Hardness	Streaking Strength Lb. Min. (4102)	Elongation % Max.	Water Absorption (4502)	Ply
Twine, Cotton, Mattre	48			1575'	Min Mox.	W F 32	_		6

Lines, Cotton, Braided Leed Lines and Taffrail og Line Mil-L-11450

3/4 (<u>+</u>1/8)

220

14

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES	
			Such as core requirements, etc.)	(Not Specification Requirements)	
T-T-931b	Twine shall have a waxed polished finish and smooth	Color- Unless otherwise specified, color shall be		Intended Use- For tufting mattresses by hand or machine.	

dressed surface.

natural or tan.

MII-L-11450

Use of casien glue, starch, dextrin, water-soluble materials, paint dryers, resin or vegetable oils, oxidizing oils or resins modified with such oils to specifically effect breaking strength or length per pound is prohibited.

The state of the

Color- Unless otherwise specified, color of the line shall be matural.

Lines shall be evenly braid- Intended Use- As lead or around a cotton core. taffrail log lines.

Rope, Tent-Lay MIL-N-1070C  Type I- Rope, Munila, Tent-Lay		(Hominal)  3/4  1 1-1/8 1-1/2	,	(b)	(a)	Min Mex.	(4102) WF (4106)	(4102)	(4502)	Strand Min.
Type I- Rope, Namila, Tent-lay		3/4	1		(a)	Min Max.	W F (4106)			
Menila, Tent-lay		1		2						
		1		3			4			
		1 1-1/8 1-1/2		2	55.55'		630			2
	2	1-1/8		3 .	38.46		1030			3 .
		TATIE		3	27.02		1410			4
				3	14.70		2720			7
		2 2-1/4		3	8.33'		4360			7
				3	6.66		5560			7
		3 3-3/4		3	4.11'		9260			7
		3-3/*			2.65'		13900			7
Type II- Rope,		2/1								_
Sisal, Tont-Lay		3/4		3	55.55'		500			2
		1 1/0		3	38.46'		830			3 ,
		1-1/8		3	27.02		1130			4
		1-1/2		_ 3	14.70'		2170			7
		2		46 3	8.33'		3500			7
		2-1/4		3	6 <b>.66'</b>		4450			7
Type III- Rope,										
Jute, Tent-Lay		2/1			50.001		480		ord	•
Juce, Tent-Lay		3/4 1		3	34.48				25%	2
		1-1/8		3 3 3	24.39'		750		25%	3 4 7
		1-1/2		3			1000		25% 25% 25%	4
				3	13.33'		1630		25%	<u>1</u>
		2 2-1/4		3	7.51'		2520		25%	Ì
		5-1/4		3	5.981		3320		25%	7
Type IV- Rope,										
Cotton, Tent-Lay		5/8		3	71.42'		250		35\$	2
		5/8 3/4		3	43.47		400		35 <b>%</b>	2
		1		3	27.77		630		35%	2 34
		1-1/8		3	18.86		850		35%	Ĭ.
		1-1/2		3	11.49'		1400		35 <b>%</b>	7
		2		3	6.49		2300		35 <b>%</b>	7
		2-1/4		3	5.10'		3000		35% 35%	7
Class 1- Natural		1/-		3	7.10		3000		377	1
Class 2- Mildev										

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-R-1670C Type I Type II Type III Type IV Class 1 Class 2	(5) Class 1 rope shall have a natural finish. Class 2 rope shall be mildew resistant treated with coppyr-8-quinolinolate to conform with T-T-616. Use of finishing or loading materials to increase weight or strength is prohobited.	Color-Unless otherwise specified, color of the rope small be natural. Color of treated rope shall be that imparted by the treatment to natural colored rope.	(a)A 5% minus tolerance on min. length per pound is allowed for Class 2 treated rope. (b) When specified, 4-strand rope shall be furnished. It shall be not more than 7% heavier than 3-strand rope of the same type and class, and shall have at least 95% of the strength required for the 3-strand rope. Type I rope shall be made from no other fiber than manila hemp (Abaca or Musa). Type II rope shall be made from no other fiber than simal (Agave sisalana). Type III rope shall be made from no other fiber than jute (Corchorus capsularis of Corchorus olitorius). Type IV rope shall be made from no other fiber than cotton. Stained or tinged cotton is acceptable.	

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diameter Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min.		Water Absorption	3	- ₋
			_	WHITE.		!	(4102)	(4102)	(4502)	-	3
Rope, Mylon,						Min Mox.	WF				
Climbing Type MIL-R-1688C		( <u>+</u> 1/8)			(a)		(4106)	(4106)			
		3/4		3	4 <b>7.</b> 0'	20 <u>+</u> 5%	1300 (initial) 90% (after agi				
		1-1/8		3	23.01	20 <u>+</u> 5\$	3150 (initial) 90% (after agi				
		1-1/4		3	17.0'	23 <b>± 5%</b>	4500 (initial) 90% (after agi				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			Such as core requirements, etc.	(Not Specification Requirements)
M11-R-1688C	(5) No extraneous weighting material shall be added.	ayed Clive Drab No. 7	Rope shall be made from 6 denier, bright, virgin, continuous filement nylon, with a min. of 6.5 grams/denier strength. Nylon shall be a long chain polymer of hexamethylene diemine and adipic acid or a long chain polymer of spailon amino caproic acid. Mixtures of nylon liber types in any one rope chall be prohibited.  (a)A minus tolerance or 10% is allowed for dyed rope.	Intended Use- For mountaineering operations.

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diameter Inclica	Number of Strends Carriers)	Longth Por Lb. Min.	Hardness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	
	7:			Min.			(4102)	(4102)	(4502)	Ply
Twine, Linen (Waxed and Blocking) HIL-T-2520B			<del></del>		)(C	Min Mex.	WF			
Type I- Waxed		,	(io coss)		2235' 1110' 510'		32 60 120			6 12 27
Type II- Blocking	26 26	,	(±0.0005) 0.1050 0.1250	14 14	210' 150'		230 300			5 7
Cord, Linen, Shock Absorber Serving Use MIL-C-2522C, Amd.	- 1			8	570'		75			1

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-T-2520B Type X Type II	(5) Type I twine shall be waxed and mildew resistant treated in accordance with Type I, Class 2 inhibitor of MIL-T-3530. Inhibitor may be applied with wax or prior to waxing. Type II twine shall have hard polished surface. ph: 5.5 - 7.5 (2811).	Color- Unless otherwise specified, color shall be natural.	Twine shall be made from flax fiber.	Intended Use - In serving and whipping rope ends and splices, and for aircraft rigging.
MIIC-2522C	(5) Cord shall be waxed. Wax content determined by following chloroform-soluble method in 2611.	Color- Unless otherwise specified, color shall be natural.	Cord shall be made from flax fiber. It shall be braided around a core. No. of core yarns: 4. Picks/Inch: 9 min.	Intended Use - For serving the ends of shock absorber cord and other aerial equipment.

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Dictaier Inches	of Strands Carriers)	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption		Picks Per
				Min.			(4102)	(4102)	(4502)	Ply	Inch
Cord, Rayon, Without Core, Braided MIL-C-4232B						Min Max.	WF	,			
Type I				<b>1</b> 6	126'		400	(mia.) 14%		1	9-10
Type II				16	601		1000	12%		1	5-5½
Type III				16	3 <b>9</b> 1		1500	-		1	312-4

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Such as acre requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-42328 Type I Type III Type III	No chemical finishes or treatments shall be applied to specifically increase weight or breaking strength.	specified, ord shall be natural color or methyl	Yarm shall be high texcity viscose rayon, 3.0 - 4.0 greens per denier. Denier of basic yarm shall be 1100 min. In manufacture, not more than 1 carrier end shall be allowed to run off per 50 ft. of cord. When carrier ends run off, they stall be spliced or knotted (3-1 knott tied in a series) a distance of 5-10 in. in langth. When knotting procedure is used, the emis of the knots shall be sheared off adjacent to the surface of the yarm.	Intended Use- As suspension line of cargo parachutes and in other aerial delivery applications.

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NOMENCLATURE	Commercial Number or Size	Circum- ference inches	Diameter Inches	Number of Strands Carriers)	Length Per Lb, Min,	Hox dness	Breaking Strength Lb. Min.	Elongation % Max.	Water Abscription				
			l	Min			(4102)	(4102)	(4502)	Des	nier	P	y
Cord, Nylon MIL-C-5040C		Pa.	ds/Carrier			Min Mox. No. of Yarns Core	WF		cks/Inch Sleeve	Core	Sleeve	С	S
Type I		- ED	1 or 2	32 or 16	1050'	4-7	100	30	26-28	210	70	3	3
Type IA(Coreless)			1	16	1050'	•	100	30	in .	-	210	-	3
Type II			1	32 or 36	315'	4-7	375	30	:#1	210	210	*5	3
Type III			1	32 or 36	225'	7-9	550	30	•	210	210	**3 *5	3
Type IV			1	32, 36, 41	165'	11	750	30	•	210	210	**3 *5 **3	3

*- First

				**- Final
NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
	٥		Such as core requirements, etc.	(Not Specification Requirements)
MIL-C-5040C Type I Type IA	(5) No extraneous weighting material shall be added.	Color- Unless otherwise specified, color of the cord shall be natural.	Core yarns shall be shrunk for .in. of 60 min. at 93.3° +2.8°C., and shall be dried	Intended Use- As parachute suspension lines.

Type II Type III Type IV

specified, color of the cord shall be natural. When colored cord is specified, cord shall be yarn dyed to match an approved standard shade of Olive Drab No. 7 (3). Sheve yarns shall be dyed before braiding.

Colorfastness- standard sample available (4660-4614-4620). See spec. for instructions for type identification by color marking. Yarns shall not be subjected to any type of bleaching process.

See Spec. for instructions for type identification by color marking. Yarns shall not be subjected to any type of bleaching process.

See Spec. for instructions for type identification by color marking. Yarns shall not be subjected to any type of bleaching process.

See Spec. for instructions for type identification by color marking. Yarns shall not be subjected to the yarn. Yarns shall not be subjected to any type of bleaching process.

See Spec. for instructions for type identification by color marking. Yarns shall be bright high-tenacity light and heat resistant polyamide of hexamethylene diamine and adiple acid or its derivatives. Melting point shall be 250°+6°C. Splicing of core yarns is permissible, providing overlap is between 5-10 in. Cord shall not lose more than 25% of original breaking strength after exposure to heat and light (4.4.4.4.5). Cord shall not be mer than 2 years old from date of manufacture to date more than 2 years old from. date of manufacture to date of delivery.

	NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Inches	Number of Strands (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max.	Water Absorption (4502)	Ply	Picks Per Inch Min.
	Cord, Cotton, Braided	1					Min Max.	WF	*			
1	MIL-C-5649P (ASG) Amd. 1					310 <b>y</b> d.		45			3	10

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL_C-5 495	Cord shall be thoroughly impregnated with a wax which shall not have a detrimental effect on doped cloths. Weight of wax: 10-25% of conditioned weight of finished unwaxed cord. Use of detergents or other chemicals or finishing agents which would cause deterioration in storage is prohibited.	Color- Cord chall be natural, unbleached white.	Yarn shall be made from combed peeler cotton or its equivalent Cord shall be braided and shall have not less than 16-ends of 3-ply cotton.	. cloth on airplane fuselages.

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diameter Inches	Number of Strands Carriers)	Length Per Lb. Min.	Hordness	Brooking Strength Lb. Min.		gation Max.	Water Absorption	No. of	
				Min.			(4102)	(4	102)	(4502)	111 5	raid
Cord, Elastic, Exerci	ser					Min Max.	WF				Inner	Oute
Agronaut teal Use MIL-C- 551B  Type I- Straight cord with double braided cover (shock-absorbing)	<u>u.                                    </u>	(	(Outside) 1/4 3/8 1/2 5/8 3/4		Weight per 100' (1b. max.) 2.4 5.5 9.0 14.0 22.0	1	120 300 400 500 1000	140 140 140 140 120	Drift (max) 20% 20% 20% 20% 20%	Set (max) 10% 10% 10% 10%	16 24 32 48 60	24 40 60 60 60
Type II- Endless ring (Bungee) with double breided cover (shock- absorbing)			1/4 3/8 7/16 1/2 9/16 5/8 11/16 3/4 13/16								98 88 88 88 88 88 88 88 88 88 88 88 88 8	32 48 43 48 48 48 48 60
Type III- Straight cord with single braided cover (exerciser cord)			3/16 5/16		1.3 3.1		<b>45</b> 7"	200 200	10% 10%	5% 5%		32 32

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-5651B Type I Type II Type III	Strands shall be thoroughly treated with scapstone or tale to prevent them from adhering to each other in the finished cord.	braids shall be natural in color. Type III:	(2-6) Yarns shall be cotton. Ends shall be made from natural rubber compound, cis-1,4 polyisoprene rubber compound, or a mixture thereof. Cord shall be made c' multiple strunds encased within double or single layers of cotton braid. Strands shall be continuous throughout the length of the cord and shall be a uniform size in a given cord. Types I & II: outer braid shall consist of polished ply yarns. Inner braid consist of polished (soft) ply yarns. For all types: braid shall be tight and prevent dirt from entering between the threads at 100% elongation. Cord shall be no more than 6 menths old from manufacture to delivery date. Low temp. set: Type II-5% max. Flexing cycles (min): "Mye I, most sizes-5x10"; Type II, 3/h in  x10"; Type III-3.5x10". See spec. for properties after aging.	Intended Use-Types I & II: Shock mount installations. Type III: opening elastic on parachute packs, camera or instrument cradle mounts, airship valve control lines, and where a simple absorbing cord of low initial tension is required.

NOMENCLATURE	Commercial Number or Size	Circum- ference isches	Diameter Inches	Number of Strands Carriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption		
	3024			Mir.			(4102)	(4102)	(4502)	Yarn Ply	Yarn Denier
ord, Nylon, Coreless MIL-C-7515C, Ami. 1	Picks	End Per	Total			Min Max.	WF				
Type I	Per Inch 11.5-13	Carrier 3	Ends 48	<b>1</b> 6 °	330'		400	(min) 20		3	210
Туре Іа	13-13.5	5	32	16	441'		400	20		2	840
Type II	10-11.5	3	48	16	255'		550	20		1	840
Type III	8.5-10	6	<b>9</b> 6	16	150'		750	20		3	210
Type IV	7-8.5	6	<b>9</b> 6 .	16	120'		1000			1	840
Type V	6.5-8	9	144	<b>1</b> 6	75'		1500			1	840
Type VI	4.5-6	12	192	16	601		2000			1	840
Type VII	4.5-6	14	224	16	45'		2400			1	840
Type VIII	5•5 <del>-</del> 7	<b>1</b> 2	288	24	36 <b>'</b>		3000			1	840
Туре ІХ	5•5 <del>-</del> 7	12	384	32	27'		4000			1	840
Туре Х	4.5-6	16	5 <b>1</b> 2	3 <b>2</b>	22.5'		5000			1	840
Type XI	14-15.5	7	112	16	480*		300	20		1	210
Type XII	4-5	<b>1</b> 6	<b>5</b> 76	36	12'		10000			7	210
Type XIIa	4-5	18	576	32	121		10000			7	210

NOMENCLATURE	FINISH	SHADE AND COLORFAST NESS	OTHER REQUIREMENTS	NOTES
			Such as core requirements, etc.)	(Not Specification Requirements
MIL-C-7515C (5) Type I Type Ia Type II Type III Type IV Type IV Type VI Type VII Type VII Type VII Type IX Type X Type XI Type XII Type XII Type XII Type XIII		Color-Unless otherwise specified, cord shall be yarn or piece dyed to match an approved chade of Olive Drab No. 7, except for Type XI, which shall be color coded in 7 continuous alternate 1000 ft. lengths of natural white and black, beginning with natural white. Dyeing of cord in skeins is promitted (3). Colorfactness-standard sample available (4600-4614).	chall be bright, high-tenacity, heat and light resistant polyamide from hexamethylene diamine & adipic acid or its derivatives. It shall have a melting point of 250°+6°C. In manufacture, no more than 1 carrier end shall be allowed to be run off per 50 ft. of cord. When carrier ends run off,	lowcost parachutes. Type XI

NOM	ENCLATURE	Commercial Number or Size		ches	Number of Strands Carriers)	Longi Per I Min	Lb.	Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption		
			35.		W				(4102)	(4102)	(4502)	P <b>ly</b>	lenier
Tubula	Mylon, Braided, r, Spliceable C-17183A (MCRD)				7			Min Max.	WF				
1	o-zjzoja (nais)	Pick/Inch	Ends/	Carrier						(min.)			
Type		17		4	16	900 3	rds.		50	20		1	70
Type		16 14.5	,	3 &)	16 16	400	**		100	20		1	210
Type	111	14.5	C	ta j	10	225			200	20		3	210
Туре	IV	13	C	<b>b</b> )	<b>1</b> 6	150			300	20		3	2 <b>1</b> 0
Туре		12	`	8	<b>1</b> 6	110	**		400	20		3	2 <b>1</b> 0
Туре	VI	n		3	16	90	"		500	20		$\widetilde{l_4}$	210
Туре	VII	9.5		6	16	<b>5</b> 0	**		7 <b>5</b> 0	20		3	210
	YIIY	9.5 8.5		6	16	40	**		1000	20		4	210
Type	IX	7.5	•	7	16	<b>∃5</b>	"		<b>125</b> 0	50		3	210
Туре		7		9	1.6	30	**		1500	20		$I_1$	210
Type		6.5	10		16	رء	**		1750	20		14	210
Type	XII	6	13	2	16	20	**		2000	20		4	210
Туре	XIII	5.5	1	3	16	17	**		2250	20		14	210
Туре	XIV	5.00	1	4	<b>1</b> 6	15			2500	20		4	910
Type	XX.	7	1	2	24	12	**		3000	20		4	210
Туре	XVI	6.5	1	<i>]</i> 4	24	10	•		3 <b>5</b> 00	20		14	210
Туре	XVII	6.25		4	24	9	11		4000	20		16	540
Type	XAIII	6	(	c)	24	8	"		4500	20		4	140
Type	XIX	5•5		5	24	7	••		5000	20		14	9/10
Type	XX	5.25		a)	24	6	**		5500	50		J _e	845
Type	XXI	5		6	24	Г	**		0000	50			(345)

- (a) 8 carriers of 1 end, 8 of 2 ends, alternately.
  (b) 8 carriers of 2 ends, 3 of 3 ends, alternately.
  (c) 12 carriers of 6 ends, 12 of 5 ends, alternately.
  (d) 12 carriers of 5 ends, 12 of 6 ends, alternately.

NOM	ENCLATURE	FINISH
MIL-C	-17183A	
Type		
Туре	II	
Type	III	
Type		
Type		
Туре		
Type		
	Alli	
Type		
Tyre		
Type		
Type		
	X111	
Type		
Туре		
Type	XA11	
	KAIII	
Type		
Type		
Type		

Color-Unles: otherwise

SHADE AND COLORFASTNESS

Color-Unless otherwise specified, color shall be tensity, bright nyion. Fiber natural. When colored conditions and the applyamile of texametry pecified, the years shall be a polyamile of texametry pecified, the years notified and a chall be dead on a 16-carrier braiding machine for Type I through (1). The machine that 10% Cord shall be beateded on a 16-carrier braiding machine for Type I through (1). The machine that 10% Cord shall be beateded on a 16-carrier braiding machine for Type I through (1). The machine that 10% Cord shall be beateded on a 16-carrier braiding machine for Type I through (1). The machine that 10% Cord shall be beateded on a 16-carrier braiding machine for Type I through (1). The machine is the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the period of the peri Cord shall be made from high-

OTHER REQUIREMENTS

Thitended Dise- For telescopic

Such as core requirements, etc.) (Not Specification Requirements)

NOTES

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diometer Inches	itumber of Strands Carriers) Min.	Length Per Lb. Min.	Hord	inees	Breaking Strength Lb. Min. (4102)	Elongation % Max.	Water Absorption (4502)	Denier
Rope, Nylon	1					Min	Mgx.	WF		1 11 111	
MiL-R-17343C, Amd.	1	(6)					1	•			
	<u>(A</u>	t Load P)	(Approx.)		(At Load P			(4 <b>1</b> 06)			
E14" :		5/B	3/16		100'	- 5	25	1000	55		2500-8000
		3/4	1/4		66'	5	25	1500	55		2500-8000
		1 ,,	5/16		<b>36'</b>	5	25	2500	55 55 55 55 55 55 55 55 55 55		2500-8000
		1-1/8	3/8		28.51	5	25	3000	55		2500-8000
		1-1/4	7/16		20'	5	25	4500	5 <b>5</b>		2500-8000
		1-1/2	1/2		16.5'	5	25	5500	55		2500-8000
•		1-3/4	9/16		12.5'	5	25	7000	55		7500-10000
		2	5/8		9.7'	5	25	8400	55		7500-10000
		2-1/4	3/4		7.2	5	25	11500	55		7500-10000
		2-1/2	13/16		6.2'	5	25	14000	55		7500-10000
		2-3/4	15/16		5.0'	5	25	16000	55		10000-15000
		3	1		4.1'	20	100	22000	55		10000-15000
		3-1/2	1-1/8		3.0'	20	100	28500	55		15000-16000
		3-3/4	1-1/4		2.6	20	1.00	33000	55		15000-16000
		4	1-5/16		2.3'	20	100	37500	55		15000-16000
		4-1/2	1-1/2		1.8'	20	100	+6000	55		15000-16000
		5	1-5/8		1.5'	20	100	57000	55 <b>55</b> <b>55</b> 55		15000-16000
		5-1/2	1-3/4		1.25'	20	100	68000	55		15000-16000
		6	2		1.60'	20	100	81000	55		15000-16000
		6-1/2	2-1/8		•90'	20	100	90000	55		15000-16000
		7	2-1/4		.71'	20	100	110000	55		15000 min.
		8	2-5/8		•55'	50	100	137000	55		TACCA MILIT
		9	3		43'	50	100	170000	55		**
	-	10	3-1/4		34	20	100	200000	55		
		11	3-5/8		285		100	240000	55		**
		12	4		24	20	100	280000	55		H

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as core requirements, etc.)	(Not Specification Requirements)
MIL-R-17343C	(5) No extraneous weighting material shall be added.	Color- Unless otherwise specified rope shall be natural in color. When color is specified, rope	Moisture content of the rope shall not exceed 5%. Finished ropes shall be splice. He shall not develop yarn dis-	Intended Use- For general purpose uses where high strength or stretch is required as in mooring, towing, and hoisting

ropes snail be spiles. He shall not develop yarm disshall be dyed to match approved standard shade of Olive Drab No. 7 (3). Colorfastress-standard sample available (4671).

Simple available (4671).

S

operations.

NOMP'CLATURE	Commercial Number or Size	Circum- ference Inches	Diameter Inches	Number of Strands Carriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	
i i				Min.			(4102)	(4102)	(4502)	545
Rope, Polygrouvlens		(6)		<b></b>		Min Max.	WF			
ALD-HOLOVAN	()	it Load P	(Approx.)	(1	t Load P)					
Sizes;		5/8 3/4	3/16	••	118.0		700			
		3/4	1/4		83.5'		1000			
		1	5/16		47.0		1700			
		1-1/8	3/8		36.1"		2150			
		1-1/4	7/16		30.0'		2500			
		1-1/2	1/2 9/16		21.0'		3700			
		1-3/4	9/16		15.8'		4800			
all or		2	5/8 3/4		12.0'		6000			
		2-1/4	3/4		9.1'		7000			
		2-1/2	13/16		7.6		9000			
		2-3/4	15/16		6.35		11000			
		3	1		5.20		13000			
		3-1/2	1-1/8		3.801		16500			
		3-3/4	1-1/4		3.30		19500			
		4	1-5/16		2.92'		21500			
		4-1/2	1-1/2		2.28		26000			
		5 7/0	1-5/8		1.90'		32000 38000			
		5 <b>-1/</b> 2	1-3/4 2		1.58		44000			
		6-1/2	2 <b>-1/</b> 8		1.26' 1.10'		50000			
		0 <del>-</del> 1/2	2-1/4				60000			
		8	2-5/8		•90' •70'		75000			
		9	3		-545	i	94000			
		9 10	3 3 <b>-1/</b> 4		•345°		115000			
		LO	J~1/4		•430		11,000	(5)		
Type I- Low elongati	on rome							(a) 35 35		
Type II- High elongs								32		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as core requirements, etc.)	NOTES (Not Specification Requirements)
Mil-R-2k049A Type I Tyr= Ii		Color-Unless otherwise specified, color shall match an approved standard shade of Olive Drab No. 7 (3). Colorfastness- standard sample available (4671).	(2) (a)Load elongation curve drawn autographically shall not exhibit evidence of changes in load applications greater than 5% of the load weighed at the instant of change. Changes due to splice slippage are of considered. Finished ropes shall be spliceable and shall not develop yarn displacement or strand cockles in testing. Materials used for the rope shall be virgin continuous moro-filament polypropylene, ranging in size from 100-600 denier per filament. Fiber shall have at least 6 grams per denier strength. Softening point of at least 300°F. Specific gravity of no greater than 0.91. Fiber shall contain adequate heat and ultraviolet light stabilizers. Ropes shall be made of 3 strands.	strength, lightweight, and flotability are required, as in mooring, towing, and hoisting operations.

NOMENCLATURE	Commercial Number or	Circum- ference Inches	Diameter Inches	Number of Strands	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption		
	Size			Carriers Min.			(4:02)	(4102)	(4502)	Picks Per Inch	Yarns Per Carrier
Rope, Hylon, Double- Praided						Min Max.	WIF				Cover (min)
MIL-R-24050 (SHIPS)		(6) 3/4	(Nominal)		(At Load P)			(a)			2
Sizes:		3/4	1/4	16	60'		1650	40		8.00	2
		1	<b>5/1</b> 6 3 <b>/</b> 8	16	361		2750	40		6.20	2
		1-1/8	3/8	16	30'		3300	40		5.65	2
		1-1/4	7/16	16	20		5000	40		4.60	2
		1-1/2	1/2	16 16	15' 12'		<b>6650</b> 8300	40 40		4.00	2
		1-3/4	9/16	20	9'		11000	40		3.60	2
		2-1/-	5 <b>/</b> 8 3 <b>/</b> 4	20	6.6'		15000	40		3.50	2
		2-1/2	13/16	20	5.7'		17500	40		3.10 2.85	2
		2-3/4	15/16	20	4.8		20800	40		2.60	2
		3	1	20	4.0		25000	40		2.35	2
		3-1/2	1-1/8	24	2.8		3 <b>5000</b>	40		2.40	2
		3-3/4	1-1/4	24	2.5'		40000	70		2.25	2
		1;	1-5/16	24	2,2'		45000	40		2.10	2
		4-1/2	1-1/2	24	1.6'		60000	40		1.85	2
		5	1-5/8	24	1.43'		70000	40		1.70	2
		5-1/2	1-3/4	24	1.11'		90000	40		1.50	
		6	2	<b>5</b> ⁷	1.00'		100000	40		1.40	2
		6-1/2	2 <b>-1/</b> 8	24	0.83'		120000	40		1.30	2

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			Such as care requirements, etc.)	(Not Specification Requirements)
MIL-R-24050	(5) No extraneous weighting material shall be added to the rope.		(a) Ioau clongation curve, drawn autographically, shall not exhibit evidence of changes in load applications greater than 5% of the load weighed at the instant of change. Inner and outer traids shall be made from bright, white, virgin continuous-filament nylon fiber of at least denier size, having at least 6.5 grams per denier strength. Rylon shall be a long chain polymer of hexamethylene diamine and addipte acid or a long hain polymer of epsilon amine caproic acid. Mixtures of nylon types shall not be exployed in finished cope or computent braid. Ropes shall be double braided. A cover shall be braided over an inner core, both hollow. Heat setting will not be permitted. Core carriers: 8 min. Core yarns/acrier: 3/4-3 in. inc. 2; 3-1/2 - (-1/2 in 3.) Loss in strength after heat axing shall not be more than los (4.2,5.3.2). Meisture content shall not exceed 5% (2600).	Intended Use- For general purpose uses where high strength and low elongation are required.
		202	1	

NOMENCLATURE	Commercial Humber or Size	Circum- ference inches	Diameter Inches	Strands Carriers)	Langth Per Lb. Min.	Hard	iness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	
				mar.		1		(4102)	(4102)	(4502)	
Rope, Polyester NIL-R-30500A		(6)				Min	Max.	WF			
		(At Load 1	<u>P)</u>		(At Load P	)		(4106)	( <u>a</u> )		
S1zes:		5/8 3/4		3	84.01	5	25	800	( <u>a</u> ) 35# 35# 35# 35# 35# 35# 35# 35#		
		3/4		3	57.0'	5	25 25 25 25	1200	35%		
		1		3	30.0	5	25	2500	35%		
		1-1/2		3	13.0'	2	25	5000	35%		
		2		3	8.0'	5	25	8000	35%		
		5-1/5		3	5.3'	5	25	13000	35%		
		3		3	3.5'	20	100	18500	35%		
		3-1/2		3	2.5'	20	100	2 <b>5000</b>	35%		
		4		3	2.0'	20	100	31000	35%		
		5		3	1.3'	20	100	48 <b>0</b> 00	35%		
		6		3	0.90'	20	100	68000	35%		
		7		3	0.66	20	100	88000	35\$ 35\$ 35\$		
		8		3	0.50'	20	100	110000	3 <b>5%</b>		
		9		3	0.40	20	100	140000	35%		
		10		3	0.33'	20	100	165000	35≴		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MII-R-30500A	No extraneous weighting material shall be added.	Color- Unless otherwise specified, color of the finished rope shall be natural. When colored rope is specified, rupe shall be dyed to matern an approved standard shade of Chive Drab No. 7 (3). Colorfastness- standard sample available (4671).	changes in load applications	Intended Use- For general purpose uses.

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Diameter Inches	Number of Strands Carriers)	Length Per Lb. Min.	Hordness	Breaking Strength Lb. Nin.	Elongation % Max.	Woter Absorption	A THE
	5,25			Min.			(4102)	(4102)	(4502)	
Cord, Acrylic, Lacing (For Assembly of Propelling Charges) MIL-C-40008 (ORD)						Min Max.	WIF			
Туре 1							20			
<b>Type</b> 2							30			
Type 3							90			
Type 4					1		100			
Rope, Nylon (Spun Yarr MIL-R-43161	<u>ı)</u>	3/4 <u>+</u> 1/8			47'	(afte	(4106) 850 (initial) 90% r heat aging	(4106) 35 <b>%</b>		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
1			Such as core requirements, etc.)	(Not Specification requirements
MIL-C-h0088 Type 1 Type 2 Type 3 Type 4	Acidity or alkalinity: no more than 0.1% as acetic acid and not more than 0.1% as sodium carbonate (4.6.1.1.2). Ash content: not more than 1.0% (4.6.1.2). There shall be no halogens in the cord (4.6.1.3). pH: 5.0 - 9.0 (4.6.1.1.1).	Color-Unless otherwise specified, color shall be natural. If color is specified, it shall be obtained by "dope" dyeing (the color being added to the acrylic polymer mix prior to spinning the filaments) or by conventional dyeing as specified by contracting officer.	(2) Cord shall be made from 99% min. acrylic fiber. Breaks in ends or plies shall be joined by knots. Ave. no. of full knots (a knot in the entire cord) shall be not more than 1 for every 2 oz. of cord.	Intended Use- In the assembly of propelling charges. It is not for use with propellants containing nitroguanidine.
MIL-R- ¹ 3161	(5) No extraneous weighting material shall be added.	Color- Shall be Olive Drab No. 7. Standard sample available (3). Colorfastness- standard sample available (4671).	nylon. It shall be of 3- strand construction, have	Intended Use- For lacing ponton floats.

NOMENCLATURE	Commercial Number or Size	Circum- ference inches	Diameter Inches	Number of Strands Carriers)	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min.	Elongation % Max.	Water Absorption	
				Min.			(4102)	(4102)	(4502)	
Cord, Polyester, Solid Braid MIL-C-43256, Amd. (GL)	2					Min Max.	WF			
Stres:			(±1/64) 3/32 1/8	8	360' 220'		205 310 400	20% 20% 20%		
			5/32 3/16 7/32	12 12 12	140' 99' 71'		400 540 725 945	20% 20% 20% 20%		
			(±1/64) 3/32 1/8 5/32 3/16 7/32 1/4 5/16 3/8 1/2	12 12 13 14 15 15	53' 34' 25' 14'		945 1575 1925 2950	20% 20% 20% 20%		
								•		
(Plumb-Bob Use) MIL-C-43258			0.050	8	1350'		48			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-43256	(5) No extraneous weighting material shall be added.	Color-Unless otherwise specified, color of cord shall be natural. When colored cord is specified cord shall be dyed to match standard st.ple (3). Colorfastness-standard sample available (4671).	The yarn used in the fabrication of the cord shall be a high tenacity multi-filament, plied or singles polyester yarn. When dyed cord is specified, the shade shall be obtained by yarn dyeing or piece dyeing and subsequently processed to stabilize the yarn or cord. The character of the cord shall be equal to standard samples for roundness and firmness.	Intended Use- In tentage, equipage, and other items.
MTL-C-43258	(5) Cord shall have a smooth dressed surface with a hard polished finish. pH: 5.5 - 7.5 (2811).	Color- Color of cord shall be natural.	Cord shall be made from flax filer.	Intended Use- For plumb-bob use on curveying equipment.

NOMENCLATURE	Commercial Number or Size	Circum- ference inches	Diameter Inches	Number of Stronds (Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max.	Water Absorption (4502)	Picks Per Inch Min.	Elastic Strands Min.
Cord, Elastic, Cotton MIL-C-43303, And. 1	Yarn Coun	ts +2 Cord				Min Max.	WF				
Class 1- General purpose	20/2	20/1	3/16 <u>+</u> 1/32	end/car-				117-143		26	7
Class 2- Special purpose	20/2	20/1	3/16-1/32	rier or 8 of 2 ends/ carrier.	yđ.			117-143 (initial) 80% er acc. aging 80% er low temps.	•	26	7
Cord, Nylon, Solid Braid, General Purpos MIL-C-43307, Amd. 1 Sizes:	<u>•</u>		(±1/64) 3/32 1/8 5/32 3/16 7/32 1/4 5/16 3/8	9 9 12 12 12 12 12 or 18 12 or 18	380° 220° 144° 99° 72° 57° 36° 24°		250 400 540 720 900 1100 1900 2700				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-C-13303 Class 1 Class 2		Color- natural or dyed (1). When dyed is specified, cotton yarn shall be dyed before braiding. (3-4). Standard sample available. Colorfastness- standard sample available (5600).	made of compounded natural rubber, synthetic rubber, or a mixture thereof. Rubber	
MIL-C-43307		Color- Unless otherwise specified, color shall be natural. When specific color is required, it shall be as specified, and shall match standard sample (3). Colorfastness- standard sample available (4671).	Yarn shall be bright, high tenacity multi-filament nylon. Cord shall be of solid braid construction.	Intended Use- In miscellaneous tentage and equipage application.

Size	t t		}	Width Inch	Thickness Inch
Min.	(4102)	(4102)	(4502)	( <u>+</u> 10%)	( <u>+</u> 0.003)
Tare: Impregnated, Min Lacing and Tring   Min Min Min Min Min Min Min Min Min Min	Max. W.F				
Length/Pound					
Type I- Polyanide Finish Wrlon A B C E					
Nylon A B C E 812es: 1 400 300 350 325	135	40		.225	.014
2 700 500 600 550	80	40		.125	.014
3 1000 800 900 850	50	40		.090	,012
	25	40		.062	.ci2
5 3200 2400 2800 2600	15	40		.050	.012
Type II- Polyester B C E					
Sizes: 1 200 250 225	135	40		.225	.014
2 400 450 425	80	40		.125	.012
3 800 900 900 4 950 1100 1000	50	40		.090	.012
4 950 1100 1000 5 1400 1556 1450	25 15	40 40		.062	.012
, 1400 1700 1470	17	40		•050	.012
Type III- Tetra-					
fluorocarbon A C					
\$1.2es; 2 350 300 4 650 550	30	30		.120	.011
5 1150 1000	15 10	30 30		.065 .025	.011 .011
, 22,0	10	50		•02)	•011
Type IV- Gless D E					
Sizes: 1 150 145	200	5		.225	.016
2 400 375 3 600 575	100 75	5		.125	.016 .016
3 600 575 4 900 875	75 50	5 5		.090 .062	.016
5	•	-		.050	.016
•				, -	
Type V- Polymide					
Nylon neat-resistant Λ C F Sizes: 1 450 400 400	85	40		.225	•014
(Continued) 2 800 700 700	50	40		.125	.014
3 1150 1000 1000	35	40		•090	.012
4 1550 1300 1300	ž <u>´</u> 5	40		.062	.008

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as core requirements, etc.)	(Not Specification Requirements)
MTT-T-43435	All tape finishes shall	Color- Imless otherwise	Tune I waym shall be a high	Intended Use- For leading and

MII-T-13435
Type I
Type II
Type III
Type IV
Type V
(Continued)

All tape finishes shall contain no copper, mercury, or compounds of copper and mercury. All finishes shall be able to be used freely in contact with insulated cable or wire.

Color- Unless otherwise specified, color shall be natural.

Type I yarn shall be a high tenacity, continuous filament nylon. Type II yarn used shall be a high tenacity continuous filament polyester. Type III yarn shall be a continuous filament tetrafluorocarbon. Type IV yarn shall be an electrical grade, continuous filament, glass, having high insulation resistant high dialectric strength, high dialectric strength, high resistance to aging, and low moisture pickup. Material shall be free from e.y free alkali metal oxides, such as soda or potash, and from foreign particles, dirt or other impurities. Type V yarn shall be an electrical grade, continuous filament, non-melting, aromatic polyamide, having high temperature resistance, high dialectric strength, and high resistance to aging. Yarn shall be substantially free from sizing, loading, and other adulterants.

Intended Use- For lacing and tying telephone switchboard cable forms, hookup wires, cable ends, aircraft cable bundles, electrical and electronic equipment, and electrical wire-harness assemblies.

NOMENCLATURE	Commercial Number or Size	Circum- ference Inches	Inches	Number of Strands Carriers) Min.	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min. (4102)	Elongation % Max.	Water Absorption (4502)	
Tape: Impregnated, Lacing and Tying MIL-T-43435 (Cont'd	)					Min Max.	WF			

Finish A- Natural.
Finish B- Wax
impregnated.
Finish C- Synthetic
rubber including
elastomer coatings.
Finish D- Tetrafluorocarbon coating.
Finish E- Vinyl
chloride or vinyl
chloride-acetate
copolymer coating.
Finish F- Silicone
resin impregnated.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS Such as core requirements, etc.)	NOTES (Not Specification Requirements)
MIL-T-43435 (Cont'd Finish A Finish B Finish D Finish E Finish F	Finish A tape shall have a natural finish. Finish B tape shall be uniformly treated with microchrystalline fungicide wax. Wax content: 15-32%. Finish C tape shall be uniformly impregnated with a synthetic rubber finish. Rubber content 7-17%. Finish D tape yarns shall be uniformly impragnaved with tetrafluorocarbon coating before braiding. Tetrafluorocarbon content: 10-20%. Finish E tape shall be uniformly coated with virgin viryl chloride or vinyl chloride-aretate copolymers plasticized with phosphate or eater plasticizers exclusively. Coating content: 15-30%. Finish F tapes shall be uniformly impregnated with silicone resin. Resin content: 7-17%.	:	All tapes shall be braided in a flat braid construction. No tape shall show vis the fungua growth on the surface of test specimens (4.2.5.3). Finish C, E, and F tapes: Stress applied to a specimen by joining 2 ends of the braided tape with a square knot shall result in breakage rather than in slip page or pulling out of the knot (4.2.5.4). Finish C, D, E, and tapes: no visible damage or removal of coatings after blocking test (4.2.5.5). Finish C, D, E, and F tapes: no stiffness brittleness, softness or tackiness after accelerated aging (5852).	; ; ;

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HOMENCLATURE	Commercial Number or Size	Circum ference Inches	Diameter Inches	Number of Strands (Carriers)	Length Per Lb. Min.	Hardness	Breaking Strength Lb. Min.	Elongation % Max.		Picks Per		
				Min			(4102)	(4102)	(4502)	Inch	Denier	Ply
Cord, Polysmide, High Temperature Resistant						Min Max.	WF					
MIL-C-81104 (WEPS)				16, 1 end per carrie			100	30		26 <del>-</del> 28	200	3

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as core requirements, etc.)	(Not Specification Requirements)

Color- Unless otherwice specified, color shall be Olive Green. Tolor shall be obtained by utilization of solution-dyeing.

Yarn shall be a high strength, Intended 'jse- In the construction aromatic polyamide, and shall of anti-2 coverails, Mark 2A, and related clothing.

#### REFERENCES

#### CORDAGE

### Textile Test Methods - CCC-T-191b

Method	Title
	Chesical
5811	Acidity (pH), potentiometric method.
	Mechanical
4102 4106	Strength and elongation, breaking small cords; single strand. Strength, breaking, heavy cordage (tape).
	Air Permeability and Water Resistance
4502	Water absorption; thread, cord, braid, immersion method.
	Colorfastness
4614 4630 4650	Colorfastness to laundering; wool, silk and rayon yarn, thread and cordage; Launder-Ometer method. Colorfastness to water; yarn, thread, or tage. Crocking resistance; yarn, thread, cordage.
4660	Colorfastness to light; yarn, thread, cordage; accelerated method (Fade-Ometer).
4670	Colorfastness to weather; yarn, thread, cordage; accelerated method (Twin Arc Weather-Ometer).
4671	Colorfastness to weather of yarn, accelerated method (National Weathering Unit).
5600	Chlorine bleaching; cloth.
	Deterioration lest
5852	Aging: accelerated oxygen method.

#### GENERAL NOTES

#### KNITTED CLOTHS

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

As specified.
 Preproduction sample.
 Colormatching.

(4) Sulfur dyes.(5) Nonfibrous, etc., restrictions.(6) Knitting instructions.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

- 1	NOMENCLATURE		YA	RN		7	Y 5	14644	Walaka	Thick	A medica	Air	Shrinkage
	NOMENGLAT ORE	Fiber	Yarn Number	Ply	Denier	Type of Knit	Yarns Psr Inch Min. (5070)	Width Inch	Weight Oz/Sq Yd (5041)	Thick- ness Inch (5030)	Strength Lb. Min. (5120)	Permeo	and Elongation % Max
	Net, Laundry (Nylon)  JJ-N-180d, Amd. 2  (See also under Synthetic Cloths)			wcs	wcs		w   c	- •	Min Mex				wc
	Type I- With grommet	ts											
	Type II- Without "												
	Size 1- 10x15 in. Size 2- 12x22 in. Size 3- 18x30 in. Size 4- 24x36 in.	Bright, high-			260 260 260 260 260 260	Warp "			9.0 9.6 9.0 9.6 9.0 9.6 9.0 9.6		220 220 220 220		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
JJ-N-180d Type I Type II Size 1 Size 2 Size 3 Size 4	Cloth shall be scoured and heat set.	Color- Cloth shall be white (natural).	Yarn shall be 16-18 filament. Brass grommets shall conform to Type I, Class 1, Size 1, of V-T-295. Meshee/sq in.: 1 -22.	Intended Use- In the form of a bag for washing items of clothing in a laundry.

MOMENCLATURE		YA	RN		Turn of			Width	Mainha	Thick-	Bursting	Air	Shrinkad
NOMENCEA! ONE	Fiber	or Yern Number	Ply	Denier	Type of Knit	le	e Per Ich lin.	inch	Weight Oz/Sq Yd	ness inch	Strength Lb. Min.		and Elongation
						(50	70)		(5041)	(5030)	(5120)	(5450)	% Mar (5556)
Stockinet, Sungical JJ-S-740a			wcs	WCS		W	C		Min Max				w c
Type I- Rib knit unbleached (Matural color) or bleached						File	Toons		(per lin yd)			,	( <u>+</u> 15%)
Sizes: 3 in. wide		12/1			Rib knit	16	24 24 24 24 24 24 24 24 24 24 24 24 24 2	3	1.25		115	3	75 100p
in. wide		or 14/1			seamless	16	24	4	1.50		115		<b>75</b> 300
6 in. vide 8 in. vide					or circular in contin-	16 16	24 2h	6 8	2.50 3.00		115		75 300
9 in, vide		or 16/1			uous tube	16	24	9	3.50		115 115		75 300 75 300
10 in. wide		, -			of cloth.	16	24	10	4.00		115		<b>75</b> 300
12 in. wide						16	24	12	4.50		115		75 300
20 in. vide						16	24	20	8.00		115		75 300
Type II- Plain or flat knit, olive													
drab	_	01. /2				Ol.	20		(rer sq yd)				
Sizes: 13-14 in. wid 50-54 in. wid		24/1 or			Plain knit on a cir-	24 24	36 36	13~14 50 <u>~5</u> 4	4.4 4.4		75 75		
70-7: 208 WIW	_	26/1			cular or	4.7	50	JUL J4	•••		15		
		or			flat ma-								
		28/1			ci ne.								

NOMENCLATURE	FINISH	SHADE AND COLORFAST NESS	OTHER REGUIREMENTS	NOTES
			(Such as Stretch, etc.)	(Not Specification Requirements)

JJ-S-746a Type I Type II Color- Type I: unbleached (natural color) or bleached. Type II: Clive Drab. Stock, yarn, or piece dyed. (4). Colorfastness- Type II: "good" (5672-5651).

Intended Use- In the treatment of fractures and wounds.

## L'INITTED CLOTHS

NOMENCLATURE		YA	RN									1011 -044		Thick- Bursting		Air		-h
NOMENCLATORE	Fiber	Yorn Number		Ply	,	Denie	7	Type of Knit		nch Min.	er	Wighth	Weight Oz/Sq Yd	ness inch	Strength Lb. Min.	Permoo- bility	Elon	nkoge end gation Max
	<u> </u>								(50	070	)		(5041)	(5030)	(5120)	(5450)		556)
Scarf, Neckwear, Wool			w	С	5	wc	3	<u> </u>	W	С			Min Mex				W	C
Class 1- Olive Green 208	Fleece and/or pulled		2	2				Flat jersey, tube, made on a circu-	8	10	0	9+}			60		7.3	13
Class 2- Gray 1155	wool: 56's wor-		2	2				lar machine using 2 ends per feed.										
Class 3- Navy Blue 3345	sted.		2	2														
Cloth, Netting, Nylor MIL-C-3395E (See also under Synthetic Cloths)	1																	
Type I- Woven (See Synthetics)																		

Warp knit (6).

70 70

(1)

2.0

Bright or semi-duli rulti-filament nylon.

Type II- Warp knitteá

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Regulrements)			
MIL-S-2763E Class 1 Class 2 Class 3	(5) Face of the cloth shall have a light'y brushed finish.	Color (1)- Standard sample available (3). Colorfastness- standard sample available (5651-5614-5660-5680).	Wool shall be treated for resistance to felting shrinkage in stock, top, yarn or	Intended Use- As neck scarves for personnel of the Department of Defense.			
MIL-C-3395E Type I Type II	Cloth shall be given a permanent resin finish & character of finished cloth shall be equal to standard sample. To insure proper number of meshes/inch and the size of meshes, cloth shall be heat set and framed to size.		slippage tests: 0.100 in. h max. Meshes per sq in:	Intended Use- In tentage and equipage items.			

NOMENCLATURE		YA	RN								148.44	****	• •	Think.	Bursting	Air	20.01	
NOMENCLAI UNE	Fiber	Yorn Number	Pi	ly	C	) oni	97	Type of Knit		e Per nch Ain.	Width	Weig Oz/Sa	Yd PY	Thick- ness inch	Strength Lb. Min.	Permec- bility	Elon %	nd pation Max
									(50	70)		(504	<b>§ ()</b>	(5030)	(5120)	(5450)	(54	556)
Cloth, Synthetic Norton, Knitted MIN-C-6590 (USAF)			w	3	) W	C	8		W	C		Min	Mex		c		w	С
And. 1	Cotton ground																	
Type I- 100% Acrylanitrile Copolymer, Pile Fiber	Acrylo- nitrile copolymer				91 6 0	<u>le</u> r 7		Ground: knitted on a 10-gage wachine	15	12	(1)	26.0	•		85			
Type II- 100% Acrylonitrile Copolymer Vinyl Chloride, Pile	Acrylo- nitrile copolymer vinyl				6			•	15	12	(1)	27.0	-		85			
Type III- 100% Acrylic, Pile. Fiber	chloride				6 0	<b>r</b> 7			15	12	(1)	26.0	-		85			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as Stretch, etc.)	(Not Specification Requirements)
MIL-C-6590 Type I Thre II	Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage or cause dermatitis on prolonged intimate skin cortact is prohibited.	specified, color shall be Sage Green 530. Colorfastness- "good"	Pile height: ½ +1/16 in. Pile recovery: 85% after 1 minute; 95% after 4 hours (4.5,2). Backing material shall show no signs of block- ing (5872). Backing material shall not crack or break when tested for flexibility (4.5,3) Backing compound shall consist of a neoprene latex, a suit- able plasticizer and a suitable cellulose flock, to form a flexible backing.	

NOMENCLATURE		YA	RN				. 0	Width	141-1	-6.6	Thick-	Bursting	Air	94-	nkage
NOMENOCAL ORE	Fiber	Yarn Number	Ply	Denier	Type of Knit	le	s Per ich lin.	Inch	Oz/S			Strength Lb. Min.		Elon	and gation Max
*					1	(50	70)		(50	41)	(5030)	(5120)	(5450)		556)
Cloth, Rayon, Knitted	9		WCS	WCS		W	C		Min	Mox		<b>/</b>		W	С
MIL-C-8065 (UBAF)	Contin- uous filament viscose rayon				Milanese knit (6).	46- 50	44 <b>-</b> 48	(1)	4.75	5.25	i	( <b>512</b> 2) 80		35	60 <b>-</b> 80
Cloth, Knitted, Cotto MIL-C-12836A (MU)	<u>a</u> Cotton				Jersey knit, tubular	19	22	32 <u>±</u> 1	10.5	-		90 8	35-100		
Cloth, Knitted, Tylco, Fleece MIL-C-17155C (SA)	Semi-dull dull or bright filament nylon, regular tenacity.	•		Face Bac 200 70 or 210		28	28	(1)	9 <b>.5<u>+</u>0</b> .	.5	(0.1 pei) 0.175 (1.1 psi) 0.125	100		8 <b>Elong</b>	nkare) 5 ation) 0% rse)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as Stretch, etc.)	(Not Specification Requirements)
MII-C-8065	Use of dyestuffs, detergents, or other chemicals or finishing agents which would cause deterioration in storage or dermatitis on skin contact is prohibited.  pH: 5.0 - 9.0 (2811).	(5682-5620-5622-5614-		Intended Use- In the manufacture of glove inserts.
MIL-c-12836 A	Cloth shall be well napped on one side.	Color - Shall be Olive Drab Shade No. 7 (4). Colorfastness- "good" (5630).	(2)	Intended Use- As a filter material in dust respirators.
MIL-C-171550	Cloth shall be slit, dyed and napped. Nap shall be completely disoriented, well tigered and have a uniform density. Finish shall be equal to finish of the standard sample.	Color- Shall be Green 3405. Standard sample available (3). Colorfastness- standard sample a ailable (5610-5622-5651-5680).	Yarns shall consist of 30-40 continuous filaments.	Intended Use- As a lining material for cold weather clothing.

NOMENCLATURE		YA	RN				WEAR		Thick-	Bursting	Shrin	baaa	
NOMENCEATORE	Fiber	Yorn Number	Ply	Denier	Type of Knit	Yarra Per inch Min.	Width	Weight Oz/Sq Yd	ness inch	Strongith Lb. Min.	bility	er Elongi %	vd otion Max
	<u> </u>			1	<u> </u>	(5070)		(5041)	(5030)	(5IZO)	(5450)		
Cloth, Knitted, Cotto	<u>n</u>		WCS	wicis		wc		Min Mex				W	C
(Verfile Type) MIL-C-17157C (SA)	Cotton 20's		1 1		Waffle effect (6)		(1)		0.08 0.1 psi) 0.06 1.1 psi)	100		12	12
Cloth, Knitted, Wcol and Cotton Fleece MIL-C-17238B	Cotton & fleece and/or pulled wool, 50's		Cotton: 1 or 2 Wool: 1		2 ends of cotton knit as 1; 2 end of wool tuck ed as 1. Cotton back; n ped wool fa	s k- t- ap-	(1)		0.24 0.1 psi) 0.17 1.1 psi)	65		<b>-</b> 9	95
Cloth, Dacron, Fnit MT-C-21286 (AER) Amd. 1	Dacron				Circular pile knit	30 30	54.	(	0.15 0.1 psi) 0.07 1.0 psi) 0.12 .cading at			(555 1•5	

NOMENCLATURE FINISH		SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES		
_			(Such as Stretch, etc.)	(Not Specification Requirements)		
MIL-C-17157C	(5) Cloth shall be scoured (not bleached), rinsed and finish- ed to produce a clean, soft, lofty cloth in a state suit- able for underwear.		(2)	Intended Use. In the manufacture of cold weather underwear (drawers and undershirts) worn by military personnel.		
MIL-C-17238B	Cloth shall be scoured (not bleached) and evenly napped to form a disoriented pile on the face.	Color- Shall be natural (undyed and unbleached).	(2) Cloth shall have a min. of 65% wool and a max. of 35% cotton.	Intended Use- In insulated cold weather boots worn by military personnel.		
MII_c-21266	Cloth shall be evenly napped on both sides to produce a uniform thickness throughout. Finished cloth shall be soft, flex! Le, and free from siz- ing and finishing materials.	specified, color of cloth shall be natural	Breaking strength: 50 lb. min in warp & courses (5100). Flammability of the cloth shall be "Normal" as defined in Commercial Std. CS191-53.	. Intended Use- In the fabrication of winter flight clothing.		

NOMENCLATURE		YA	RN		T	Yarns Per	Width	Weight	Thick-	Bursting	Air	9hri	nkage
NAME OF THE	Fiber	York Number	Ply	Denier	Type of Knit	Inch Min.	Inck	Oz/Sq Yd	ness	Strongth Lb. Min.	Permea-	Elon	and gation Max
						(5070)		(5041)	(5030)	(5120)	(5450)		556)
Cloth, Enitted, Cotton (Circular, Waffle Lyn			wcs	wcs		w c		Min Max				W	С
MIL-C-22781 (SA)	Cotton		1 1		Waffle (6)		(1)		0.10 0.1 psi) 0.07 1.1 psi)	65		12	צו

Cloth,	Knitted,
Cotton,	Simplex
100	TOWN THE

Type I Class 1- White 3028 Cotton Class 2- Gray 1164 " Class 3- Gray 1163 " Class 4- Seal brown 105 " Class 5- Gray beige 270 " Class 6- Black 3226 "	48-line Atlas pat- tern with non-revel- ing edges.	66 66 60 60 60 60	42 42 42 42 42	36 min.	9.5 9.5 9.5 9.5 9.5	:	130 130 130 130 130	(55 10 10 10 10	3 3 3 3 3 3
Type II (lighter weight cloth)		66	40		7.5	-	120	10	3

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES		
			(Such as Stretch, etc.)	(Not Specification Requirements		
ni-c-22781	(5) Cloth shall be scoured (not bleached), rinsed, and finished to produce a clean, soft, lofty material in a relaxed state suitable for manufacture of underwear. Resins, sizing, or loading material shall not be used to increase weight or to control dimensional stability. Cloth shall be evenly napped on both sides and shall match standard sample for finish.	Color- Cloth shall be natural (undyed and unbleached) and shall match standard sample.	(2)	Intended Use- In the manufactur of cold weather underwear (draw ers and undershirts) worn by military personnel.		

MIL-C-40004A

Type I Class 1 Class 2 Class 3 Class 4 Class 5 Type II

(5)
Cloth shall be sueded on both sides and have a suppleness equal to the standard sample.
pH: 5.0 - 8.5 (2811).

Color (1)- Standard sample available (3-4). When White is specified, cloth shall be bleached and tinted with Vat Blue 6, C1 69825/6. Colorfastness-standard sample available (5614-5651-5680).

(2) Type I- Stretch: 15% max. in the length; 40-60% in the width(4.4.2.1).

Type II- Stretch: 20% max. in length; 60-80% in width.

Intended Use- In the fabrication of gloves, scarves, and lining of protective headgear, and earphones and other personal equipment.

NOMENCLATURE		YA	RN					T		. B	Width	144	1-6.4	Thick-	Gursting	Air	Shri.	nhogo
NOMENCEATORE	Fiber	Yorn Number		Ply		Den	nier	Type of Knit	1	ns Per nch Win.	inch		ight Sq Yd	ness Inch	Strength Lb. Min.	Permito	Elon	and gotion Max
									(50	70)		(50	(41)	(5030)	(5120)	(5450)		556)
Cloth, Mylon,			W	C	3 1	W	3		W	С		Min	Mox				W	C
Knitted, Reschel	Bright high tenacity filament nylon							Raschel (6)	20	28	35 min.	10.5	•		200		1	1
Cloth, Knitted, Mylon Tubular, Stretch Type MIL-C-43247 (GL)	Stretch nylon yern				10	0 10	00	Interlock	28	40	(1)	10.5	<u>+</u> 0.5		200		30 <b>-</b> 50	45= 65
Cloth, Pile, Acrylic Fiber Pile MIL-C-43251	Pile: Acrylic fiber. Backing: blend of cellulose & triace- tate. Tri acetate content: 45% min.	•		:	P11 3			Circular bmit (6)			(1)	11.5	13.5					

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
			(Such as Stretch, etc.)	(Not Specification Requirements)
MII-C-41831	Cloth shall be heat set and resin treated using a thermosetting resin to provide stiffness. Stiffness- Initial: min. of 0.300 load-lb. parallel to the wales and 0.200 across the wales. After 3 launderings: min. of 0.175 parallel to the wales and 0.150 across the wales.	semple available (5614-5651-5680).		Intended Use- As the front stiffener in field, hot weather baseball caps.
MIL-C-43247	Cloth shall be secured, dyed, and heat set.	Color- Cloth shall be Olive Green 106. Stan- dard sample available (3). Colorfastness- standard sample available (5610- 5651-5680).	Recovery after elongation: to within $\frac{1}{u}$ in. of original measurements.	Intended Use- In the manufacture of insulated caps for helmet liners.
MIL-C-43251	Cloth shall be opened & sheared. File height shall be 13/32-1/32. File characteristics shall be equal to those of standard sample. An acrylic type resin applied to the back of the cloth as an anticurl or bonding agent will be permitted. pH: 5.5 - 8.0 (2811).	Color- Shall be Green 252. Standard sample available (3). Dull-ness (lack of lustre) shall approximate that of standard sample. Colorfastness- standard sample available (5614)		Intended Use- As the lining component in canteen covers.

NOMENCLATURE		YA	RN		T ad		er Widt		Thick-	Bursting	Air	05.4	wage
NOMENCENI ONE	Fiber	Yorn Number	Ply	Denier	Type of Knit	Yarns I Inch Min	Incl	511.2 100111	ness inch	Strength Lb. Min.		Elong	nd pation Max
-						(5070	)	(5041)	(5030)	(5i20)	(5450)		56)
Cloth, Natting, Nylon Mile, Tricot Mile-43352, And. 1 (GL)			wcs	wcs		w c		Min Max		·		W	С
Class 1- Untrested	Nono-			15 15	Mesh type		(1)	0.5+0.1		19			
Class 2- Resin treated	filament semi-duli normal tenacity nylon.	ı		15 15	Mesh type		(1)	0.5+0.1		19			
Cloth, Enitted, Fion/Triacetate, Fricot, 00-106							- 4-3		min.				
MII_C-+3358	Back bar: multifilm semi-dull normal ter acity myle Front bar: 20 filmer	1 XII		ck bar: 40 at bar: 75	Warp knitted so that tri- acetate yarr will be run in to produce a long float	i	7 (1)	5) 6.5	0.065	45		3	4

normal ten-acity nylon Front bar: 20 filament triacetate.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Stretch, etc.)	NOTES (Not Specification Requirements)
MII-C-43352 Class 1 Class 2	Class 1 cloth shall be scoured. Class 2 cloth shall be given a permanent resin finish. Char- acter of finish shall equal that of standard sample. Both classes shall be framed and heat set to assure proper number of meshes/inch and the size of the meshes.		Meshes per inch- Width: 19-21; Length: 27-29.	Intended Use- As a component of the medical kit used by military personnel and as a component of the head net.
MIL-C-43358	Cloth shall be scoured and heat set. The long floats on reverse side of cloth shall be napped and sheared to produce a uniform density of pile throughout. Claracter of napped surface shall be equal to that of standard sample.  (5)	Color- Shall be OG 106. Standard sample avail- able (3). Colorfastness- standard sample available (5614- 5651-5680).	(2)	Intended Use- As the basic material for the Shirt, Sleeping, Man's, Nylon/Triacetate, Tricot Knit, OG 106.

#### REFERENCES

#### KNITTED CLOTHS

## Textile Test Methods - CCC-T-191b

Method	Title
	Chemical
5811	Acidity (pH), Potenticumetric method.
	Construction
5030 5041 5070	Thickness of cloth. Weight of cloth; small specimen method. Wales and courses in knit cloth.
	Mechanical
5100 5120	Strength and elongation, breaking, grab method. Bursting strength, ball method.
	Air Permeebility and Water Resistance
5450	Air permeability, calibrated orifice method (Frazier).
	Shrinkege Resistance
5550 5556	Shrinkage in laundering; cotton, linen, and mixed cotton and linen cloth. Shrinkage in laundering; mobile laundry method.
	Colorfastness
5600	Chlorine bleeching; cloth.
5610 5614	Laundering; cotton and/or linen; Launder-Caster.
5620	Laundering of wool, silk, rayon cloth; Launder-Caster.
5622	Dry cleening (petroleum solvent). Wet cleening (with dry cleening).
5630	Water, cold.
5651	Crocking of cloth.
5660	Light; accelerated (Fade-Ometer).
5671	Weather; accelerated method (National Weathering Unit).
5672	Weather; natural weather method.
5680	Perspiration; perspirameter method.
5682	Perspiration; tube method.

#### GENERAL NOTES

#### MARROW PARICS

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

(1) As specified.
(2) Preproduction sample.
(3) Colormatching.
(4) See specification for applicable telerances.

(5) Monfibrous and extractable matter restrictions.
(6) Restrictions on sulfur dyes.
(7) Bid sample and laboratory report.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

NOMENCLATURE	Yorn Number	Fiber	Weight	Width Inch	Warp Yurns - Full Width	Picks Per Inch	Breaking Strength i.b. Min.	tion % Max.	Tidek- ness Inch	and	Counts Ply
				L			(5100)	(5100)	(5030)	<u>+5</u>	.0%
Tape, Textile; Cotton, General Purpose (Unbleach Bleached, or Dyed DDD-T-SGe		iffer	Min Max		Total Face Binder Stuff (nin) Bock	(Min)				Werp	Fill
Type I- Stay bindings, herringbone				(4)			(verp)				
twill weave		Cotton		1/4	28	38	25			<b>40/</b> 2	60/2
		Cotton Cotton		3/8 7/25	28 36 44 52 60 68 76 84	38 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	25 30 35 42			or 20/1	or 30/1
		Cotton		1/2 5/8	52	38				*	
		Cotton Cotton		5/8 11/16	60 68	38 38	50 58 65 72 80				
		Cotton		3/4	76	38	50 65				W
		Cotton		3/4 13/16		38	72			*	*
		Cotton		7/8	92	38	80				
		Cotton		1	100	38	85			*	
		Cotton		1-1/16	108	38	90				
		Cotton		1-1/8	116	36 38	95			*	
		Cotton		1-1/4 1-1/2	132 1 <i>6</i> 4	38	115 130				
Type II- Other bindings herrin	<b>N</b> -	00000				JC	130				
bone twill wear	re .	Cotton		3/16 1/2 5/8	32 ¹ 74 ² 94 ³	58	22			60/2	60/2
(Continued)		Cotton		1/2	74=	70	50 60			**	30/1
		Cotton		5/8	943	70	60			*	or 60/2

- 8 ends left- 16 ends right- 8 ends left.
   20 ends left- 34 ends right- 20 ends left.
   22 ends left- 50 ends right- 22 ends left.

NOMENCLATURE	FINISH	SHADE AND COLUMFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
DDD-T-Sce Type I Type II (Cont'd)	(5)	unbleached, bleached, or dyed as specified. Std. samples available (3-6). Colored tape shall be stock, yarn, or piece dyed. Colorfastness (1).	When specified, Classes 1, 2, and 3 shall be preshrank, & shall not shrink more than 4,5 in the warp (4.3.2).  Weave - Type I: a 2/2 single or multiple herringbons twill with 1 or more reversals of the twill across the width of the tape. Tape shall have a woven edge on both sides.  Weave - Type II: shall be the same as for Type I.  Tape shall have a woven edge on both sides.	Intended Use- As bindings in the fabrication of clothing and other textile items.

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NOMENCLATURE	Yern Number	Fiber	Weight	Width	Worp Yerns -Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elonge- tion % Mox. (5100)	Thick- ness Inch (5030)	Yarn and ±5.	
Tape, Textile; Cotton, General Purpose (Unbleache Bleached, or Dyed DDD-N-85e (Cort		ffer	Min Mex		Total Face Binder Stuff (min) & Back	er (Min)				Warp	7:11
Type III- Bindir plain weave	-	Cotton Cotton Locton Cotton Cotton Cotton		3/16 1/4 3/8 1/2 9/16	13 17 25 34 35 65	28 28 28 28 28 28	(warp)  14  18  24  35  36  65		:	24/2 "	30/1 or 60/2

Class 1- Umbleached Class 2- Blached Class 3- Dyed

COLORFASTNESS (Sun	#ER REQUIREMENTS NOTES ch as Weave, Ends/ rrier, etc.)  NOTES (Nor Specification Requirements)
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DDD-T-86e (Cont'd)
Type III
Class 1
Class 2
Class 3

See p. 245 for additional information.

Weave - Type III: shall be plain. Tape shall have a woven edge on each side.

NOMENCLATURE	Yarn Number	Fiber	Weight	Width	Warp Yarns-Full Width	Picks Per Inch	Breaking Strength Lb. Min.	Elongo- tion % Max.	Thick- need Inch	
							(5100)	(5100)	(5030)	
Tape, Mon-Woven (Perallel-Yern Flat String) DDD-T-90b	Wurp Fill Stu	ffer	Min Max		Total Face Binder Stuffe Back	br .				
Class 1- 0.0045				( <u>+</u> 1/32)	(+ any)		(5102)		(±0.0005)	
in thick Sizes:		Ary synthet and/or natural fib-		3/16 1/4 5/16 3/8 1/2 5/8 3/4	16 21 27 32 46 50 73 97		16 21 27 32 46 60 73 97		0.0045 0.0045 0.0045 0.0045 0.0045 0.0045	
Class 2- 0.006 in, thick Sizes:				5/16 1/4 5/16 3/8 1/2 5/8 3/4	17 23 30 37 48 58 75		21 28 35 43 55 70 85		0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006	
Class 3- C.010 in. thick Sizes:				5/16 3/8 1/2 5/8 3/4	16 21 27 33 40 53		65 93 124 155 186 248		0.01 0.01 0.01 0.01 0.01 0.01	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
DDD-T-90b Class 1 Class 2 Class 3		Color- Unless a specific color is stated in the invitation for bids, tape shall be white, natural, or any color. Colorfastness- "fair" (5651). When water resistant binding agent is specified, also "fair" for 5630. Dyed tape shall be uniform in color.		<ul> <li>tying packages, identification</li> <li>t. purposes, and as a removal strip in packaging.</li> </ul>

HOMENCLATURE	Yara Number	Fiber	Weig	ph1	Width	Warp Yerns -	Full Width	Picks Per Inch	Breaking Strength Lb. Mir	Elongo- tion % Max.	Thick- ness Inch	
			oz/sq	γđ					(5100)	(5100)	(5030)	
Tepe, Textile, Cotton, Biss-Cut DDD-T-140	Marp Fill Stu	fter	Min	Max	•	Total Face G Back	Binder Stuff	er				
Type I- Cambric		Cotton	2.7	•	(1)	64		55				
Type II- Percale		Cotton	3.0	•	(1)	85		72				
Type III- Sateen		Cotton	2.8	-	(1)	88		140				
Type IV- Twill		lotton	4.0	-	(1)	76		114				
Class 1- Hleach Class 2- Dyed	eđ											

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
DDD-T-140 Type I Type II Type III Type IV Class 1 Class 2	Type I cloth shall contain enough sizing to produce a cambric finish.	Color (1-6). Standard samples available (3). Colorfustness Standard samples available (5610- 5600-5622-5651-5660- 5680 or 5682).	'écaves - Types I and II: plain; Type III: Sateen; Type IV: 1/2 twill.	Interded Use- Primarily for the the binding of seams in vegr- ing apparel.

NOMENCLATURE	Yarn Number	Fiber	Weigh	h9	Width	Warp	<b>Varns</b> - F	uil Y	Vidth	Picks Per Inch	Breaking Strength Lb. Min.	Elongo- tion % Max	ness	Elest Stren	ds
			Oz/lin ;	yd							(5100)	(5100)	(5030)	Gage	We ave
Mebbing, Textile, (Cotton, Electic) JJ-W-155d, And.		iffer	Min	Aax		Total	Foce Bi Bock	inder	Stuff	<b>O</b> f			-		
Type I- Woven Class 1 Class 2 Class 3 Class 5 Class 5 Class 6 Class 7 Class 8 Class 9 Class 10 Class 11 Class 12	(+2 counts) 20/2 24/2 24/2 24/2 24/2 24/2 20/2 24/2 20/2 24/2 24/2 24/2 24/2 20/2 26/2 20/2 26/2 20/2 26/2 24/2 24/2 24/2 24/2 24/2 24/2 24/2	Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton	0.28 0.30 0.43 0.50 0.45 0.57 0.57 0.65 0.65 0.87		(4) 1/2 1/2 3/4 7/8 7/8 1 1-1/4 1-1/4 1-1/2 1-1/2	(elasti) 7 8 11 13 12 13 15 14 17 26 23	18 21 30 36 33 36 42 26 28 26 100	- - - - - -	6 9 11 - 13 - 24 21	50 100 100 50 50 100 52 60 70 96		50% 0 50% 0 50% 0 50% 0 50% 0 50% 0 50% 0 50% 0	.045=0.060 .042 min. .042 min. .045=0.060 .045=0.060 .045=0.060 .042 min. .050=0.065	30 30 36 36 36 30 50 36 44 30	2 1 1 2 2 1 4 3 3 1 1
Class 13 Class 14 Class 15 Class 16 Class 17 Class 18 Class 19 40/2 Class 20 Class 20 Class 21 Class 22 20/2 Class 23 Class 24 20/2	12/2 12/1 12/2 12/1 24/2 20/2 24/2 20/2 40/2 30/2 40/2 30/2 20/2 20/2 20/2 20/2 20/2 20/2 12/2 12/2 + 12/2 12/2 + 12/2 24/2	Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton	0.95 1.25 1.28 2.60 3.30 4.60 6.70 0.55 1.40 1.50 2.07 2.10		1-1/2 1-3/4 2 3 6 5 7 10 1/2 1 1-1/2 1-1/2	19 22 22 42 113 157 221 28 28 19 42 44	54 63 42 82 885 237 3 1749 53 171 153 253 182	216	21 - - - - 6 12 17 19 38	100 40 52 52 84 84 60 90 60 98		50% 0 50% 0 50% 0 50% 0 40% 0 40% 0 40% 0 40% 0	.043 min. .048 min. .049 min. .049 min. .058 min. .058 min. .058 min. .09 min. .09 min.	30 36 36 50 50 42 45 42 30 30 30	1224455566666
Class 25 Class 26 (Continued)	30/2 21/2 30/2 20/2	Cotton Cotton	2.66 0.43	-	5/8	56 12	342	<b>2</b> 6	24 10	90 96		40% 0	.09 min.	30 28	6

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Regularements)
JJ-W-155d Type I Class 1 Class 2 Class 3 Class 4 Class 5 Class 6 Class 7 Class 8 Class 9 Class 10 Class 11 Class 12 Class 15 Class 15 Class 15 Class 15 Class 16 Class 17 Class 16 Class 17 Class 20 Class 20 Class 20 Class 20 Class 21 Class 22 Class 22 Class 23 Class 24 Class 26 (Continued)	Unless otherwise specified, Classes 1, 20 & 26 shall be water repellent and mildew resistant treated. Class 5 shall be mildew resistant treated. Mildew resistant treatment shall be with 2,2' methylenebis-(4-chlorophenol) so that concentration of the inhibitor deposited on the webbing shall be 1.35 + 0.25 %. Inhibitor shall be applied from a two bath aqueous emulsion. Water repellent treated shall be obtained by the use of a wax or metallic salt wax compound. As a result of the treatment, dynamic absorption shall not be more than 40% (5500).	samples available (3). For dyed webbing, yarns shall be vat dyed before weaving (6). Colorfastness- standard samples available. For dyed webbings of Classes 1, 5, 6, 8-11, and 13-26 (5610-5671). For Classes	Elastic strands for all webbing except Class 5 shall be made from compounded natural rubber. Class 5 shall be made from natural rubber. When a core is covered, it shall be wrapped with multiple ends of cotton yarns. See spec. for special directions for weaves 1-6. See spec. for initial tension requirements to be met by all Classes. After acc. aging, tension of all webbings except Class 5 shall not shange more than 10% (4.3.2.2). Tension for Class 5 shall not shange more than 10% (4.3.2.2). Permanent set of all webbings shall not be more than 20% after acc. aging. (4.3.4.2 for all Classes except Class 5; 4.3.4.3 for Class 5). Change in set shall not be more than 20% after acc. aging. (4.3.4.2 for all Classes except Class 5; 4.3.4.3 for Class 5). Change in set of Class 5 for all Classes except Class 5, 1.3.4.3 for Class 5, 1.3.4.3 for Class 5, 50% min (4.3.5.2). Elongation of all Classes except Class 5, 50% min. (4.3.5.2). *Synthetic ruiber may also be allowed.	Intended Use- Class 1, 6 and 9: used by the Chemical Corps. Class 1: also used in fabricati of various types of Army goggle Class 5: used by Chemical Corps in one type of protective mask, head harness. Class 9: used in hoxer shorts. Class 14: used in Navy swin trunks. Class 17, 18, 19, 21, 23 and 25 (untreated): used in medical installations for construction of orthopedic appliances. Class 20: used in the fabrication of helmet, camouflage, bands.

NOMENCLATURE	Yorn Number	Fiber	Weight oz/lin yd	Width	Worp Yerns -Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)		ness Inch	Elest Street Gage	
Webbing, Textile, (Cotton, Elastic)  JJ-W-155d, Amd. (Cont'd)		ffer	Min Max		Total Face Binder Stuff B Back	ler					
Type II- Braided Class 1 Class 2 Class 3	( <u>+</u> 2 counts) 20/2 20/2 20/2	Cotton Cotton Cotton	0.16 - 0.20 - 0.24 -	(4) ( 5/16 3/8 1/2	carrier)(slastic) 17 8 25 12 33 16	68 68 68		50%	0.035=0.050 0.035=0.050 0.035=0.050	42	7 7 7

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Corrier, etc.)	NOTES (Not Specification Regularements)
JJ-W-155e (Cont'd) Type II Class 2 Class 3		Color-Classes 1-3 shall be unbleached, bleached, or dyed as specified. Standard samples available (3). For dyed webbing, yarns shall be vat dyed before weaving (6). Colorfastness-Standard samples available. For Classes 1 and 2 (5610-5660). For Class 3 (5610-5671).	Class 5 shall meet all requirements for tension before and after aging, elongation, and all permanent set, after being boiled (4.3.6).  Type II- Elastic strands shall be made from natural and/or synthetic rubber. When a core is covered, it shall be wrapped with multiple ends of cotton yarns. Weave No. 7 shall be plain, 2 over and 2 under. See specfor initial tension requirements to be met by all Classes Tension shall not change more than 20% after acc. aging (4.3.2.1). Permanent set shall not exceed 8% initially. After acc. aging, set shall not change more than 20% (4.3.4.2). Elongation shall not be less than 10% after low temps. (4.3.5.1).	used by the Chemical Corps.

NOMENCLATURE	Yara Number	Fiber	Weight	Width	Worp Yarns -Full Width	Picks Per Inch	Breaking Strength Lb. Min.	tion % Max.	Thick- ness Inch	Ends Per	No. Of Ends
			oz/144 yd	( <u>+</u> 1/32)			(5100)	(5100)	(5030)	Carrier	Core
Breid, Textile	Verp Fill Stu	ffer	Min Mex		Total Face Binder Stuff	96					
Riles-3(10, And.	2				Bock .						
							(4102) <u>F</u>	Ply braid Core	·		
Type I- With core		Cotton		4/32 (dia)	16	16	60	2 3		1	10 8
Type II- With co	re	Cotton	28.0 - 16.5 -	5/32 " 6/32	5# 5	10 22	75 75 80	2 3		8	8
Type III- Flat Type IV- Solid		Cotton Cotton	21.0 -	4/32 (dia)		10	80	3		2	•
Type V- Solid		Cotton	26.0 -	6/32 (dia)	8	8	100	4		2	
Type VI- Solid		Cotton		4/32 (dia)		8	100	2		6	
Type VII- Flat		Cotton	25.0 -	11/32	44.	22	140	2		2	

Class 1- Natural finish. Class 2- Water-repellent finish. Class 3- Water and mildev resistant finish (Copper-3-quinolinolate). Class 4- Water and mildev resistant finish 2,2' Mathylenebis-(4-chloro-phenci).

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MII-B-371C Type I Type II Type III Type IV Type V Type V Type VI Class 1 Class 2 Class 3 Class 4	Class 1: natural finish. Class 2: water repellent treated with metallic salt wax emulsions. After treatment, dynamic absorption shall be not more than 40% (4500). Class 3: water repellent treated in the same manner as Class 2, and mildew resistant treated in accordance with Type I, Class 1 of MIL-T-3530. Class 4: water repellent treated in the same manner as Class 2, and mildew resistant treated in accordance with Type I, Class 2 of MIL-T-3530.	samples available (3). Colorfastness- Standard samples available. Class 1: (4660-4610- 4600). Class 2: (4660- 4610). Class 3: (4600- 4610). Class 4: (4600-	(2) Types I, II, IV, V and VI shall be braided with a bas- ket type braiding. Typer III and VII shall be braided with a plain type braiding. A loss in breaking strength, based on the min. specified for untreated braid shall be permitted for the applicable Class as follows: Class 2: 15%. Classes 3 and 4: 20% (includes loss for water repellent and mildew treatment)	Intended Use- For use with various items of clotning as a tie-cord or lacing cord.

NOMENCLATURE	Yorr Numb		per W	leight	Width Inch	Worp Yarns - Full Wi	idth		Breaking Strength Lb. Min.		Thick- nees Inch	
									(5100)	(5100)	(5030)	
Cloth, Thread, and Tape; Asbestos SS-C-b66 See also under Natural Fibers Other than Cotton or Wool	Vorp Fill	Stuffer	M	in Max		Total Fuce Binder : 0, Back	Stuffe	•				
Form I- Cloth												
Form II- Thread, sewing, reinforce with wire	ed											
Form III- Thread, sewing, without wire	•											

(1) 16<u>+</u>1

8<u>+</u>1

Form IV- Tape Grade U.G.- 80% asbestos Style 1- Plain weave

Asbestor

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
SS-C-466e Form I Form II Form III Form IV			Tape shall contain not less than 80% asbestos. It shall be made of good-quality chrysotile asbestos and organic fiber. Hygroscopic moisture shall not exceed 5% (4.4.1.1). Werp yarn shall be 10-cut and filling shall be 10-cut, 2-ply. Tape shall have woven selvage edges.	over insulation where the temperature of the insulated surface is more than 125 F (52 C), except that it is not intended to be used on fittings or flanges, or where it will be in

NOMENCLATURE	Yarn Nember	Fiber	Weight	Width	Worp Yorns	-Full Width	Picks Per Inch	Breaking Strength Lb. Min.	Elonga- tion % Max.	Thick- ness Inch	
								(5100)	(5100)	(5030)	
Mebbing and Tame, Nextile, Cotton, General Purpose Setural or in Colo MIL-W-5300, And.	226	iffer	Min Max	l	Total Face & Back	Binder Stuff	er				
Type I- Lightwei	ight (±3≸)							(warp)			
tape Simes:	16/2 16/2 16/2 16/2	Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton	0.15 - 0.20 - 0.25 - 0.30 - 0.45 - 0.50 - 0.60 - 0.80 - 1.00 - 1.20 -	3/8 1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-1/2 2-1/2 3	37 49 61 69 77 89 97 109 129 169 209 249	7 10 13 15 17 20 22 25 30 40 50	46 46 46 46 46 46 46 46 46 46 46 46 46 4	50 70 85 100 115 130 145 165 190 250 300 360			
Type In- Extra lightweight tape	20/2 20/2	Cotton	0.45 -	2	159	-	32	235			
Type II- Medium weight webbing (hard texture) Sizes:	16/2 16/2 8/4 8/4 8/4 8/4 8/4 8/4 8/4 8/4 8/4 8/4 8/4 8/4 8/4 3/4 8/4 3/4 (Continued)	Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton	0.20 - 0.32 - 0.40 - 0.48 - 0.65 - 0.81 - 1.30 - 1.78 - 1.95 -	3/8 1/2 5/8 3/4 1 1-1/4 1-1/2 2 2-3/4	48 24 30 36 48 60 72 46 132 144		40 14 14 14 14 14 14 14	(full width 100 160 200 235 315 385 460 585 760 810	•)		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such de Wedve, Ende/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIIL-W-530D	(5)	Color- Webbing & tape	(2-7).	Intended Use- In the manufacture

Type In (Continued) Classes la, lb, 2a, 4, 7 and 8 shall be umbleached, webbing or tage shall have a water repellent finish, consist- Olive Drab 7, Elack, ing of aluminum salts of satur- or other color as ated carboxylic acid (such as formate, acetate, palmitate, or stearate) mixed with refined mineral and vegetable waxes.

Product shall be applied either in the form of an aqueous emul-sion or of a water-free solvent solution, to effect the deposit of not more than 6% on the weight of the finished clotn. Dynamic abscrption of treated cloth shall be no more than 40% (5500). Classes lb and 4 webbing or tape shall be mil-dew resistant treated with an even deposit of 0.13-0.40% copper as metal from copper-8-quinolinolate. See spec. for method of application.

S1-X1-7.1

specified. Standard samples available (3). Dyed weebing or tape shall be stock or shall be stock or yarn dyed, except Types I, Ia & IIa, which may be piece dyed. Only those warps of stock or yarn dyed webbing specifically listed as "stuffer warps" may, if properly covered, be undyed. When Classes 4, 7 and 8 are required, shade of dyed webbing or tape prior to application of finish shall, unless otherwise specified, match standard sam-ple. Unless specifically authorized by contracting officer, use of coloring matter as a component of the firdsh is not permitted.

(a) Two or more plied yarns of equal yarn size, weaving as 1 may be substituted for the yarn sizes shown providing that the single equivalent count of the yarns is equal to the yarn sizes specified, and providing that the min. weight, equivalent texture, and min. breaking strengths are not reduced. Weave for Type Ia shall be plain. See spec. for special instruc-tions and/or diagrams for all other weaves.

of tentage, clothing, and equipage items. Class 7 webbing or tape is specified when intended for end use in contact with natural or synthetic rubber. Type VI webbing is used as understraps in the manufacture of prosthetic appliances and for lamp wicks.

NOMENCLATURE	Yorn Number	Fiber	Weight	Width	Warp Yarns - Full	Width	Picks Per Inch	Breaking Strength Lb. Min.	Elonga- tion % Max.	Thick- ness inch	
				}				(5100)	(5100)	(5030)	
Textile, Cotton, General Purpose Natural or in Colo MIL-W-530D, Amd. (Cont'd)		ffer	Min Max	<u> </u>	Total Face Binds & Back	or Stuffe	er er	•			
Type II- Medium weight webbing (hard texture) Sizes: (Cont'd)	(+3 <b>≸</b> ) -(a) 8/4 8/4 8/4 8/4 8/4 8/4	Cotton Cotton Cotton	2.43 - 3.25 - 3.65 -	3-3/4 5 5-5/8	180 240 270		14 14 14	(Per Inch) 315 315 315 315 (verp)			
Type IIa- Medium weight webbing (soft texture)	12/2 12/2 8/ 12/2 12/2 8/	3 Cotton 3 Cotton 3 Cotton 3 Cotton 3 Cotton 3 Cotton 3 Cotton 3 Cotton	0.25 - 0.33 - 0.49 - 0.65 - 0.81 - 0.97 - 1.30 - 1.47 -	3/8 1/2 5/8 3/4 1 1-1/4 1-1/2 2 2-1/4	41 5 47 6 53 7 65 9 83 12 101 15 119 18 155 24 173 27	14	36 36 36 36 36 36 36 36	130 160 195 230 300 370 440 580 645			
Type IIb- Medium hvy.wgt. webbing (Continued)		Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton	0.60 - 0.72 - 0.96 - 1.20 - 1.44 - 1.92 - 2.25 - 2.88 -	5/8 3/4 1 1-1/4 1-1/2 2 2-1/4	49 5 57 6 73 8 89 10 105 12 137 16 161 19 201 24		54 54 54 54 54 54	310 365 475 590 700 925 1050			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-530D (Cont'd) Type IIa Type IIb (Continued)	Classes la, 2a, and 7 webbing or tape shall be mildev resistant treated with 1.1-1.6% of 2,2' methylenebis-(4-chlorophenoi). See spec. for method of application. pH: Classes la, lb, 2a, 4, 7 and 8 shall be 5.5 - 8.5.	Dyed webbing or tape shall show good dye penetration and dye shall be completely oxidized. Webbing or tape shall be well scaped and washed after dyeing(6). Colorfastness-Class 3: standard sample available (5651-5671). In addition, Classes 3, Type I shall show factness to (5600-5610). Classes 4 & 7: standard sample available (5651-5671). In addition, Classes 4 & 7: Type I shall show fastness to (5600-5610). Class 8: standard sample available (5651-5671-5600-5610).		

NOMENCLATURE	Yorn Number	Fiber	Weigh	1	Width	Worp	Yerns -	Full W	idth	Picks Per inch	Breaking Strength Lb. Min.	Elonga- tion % Max.	Thick- ness Inch	
											(5100)	(5100)	(5030)	
Webbing and Tape, Textile, Cotton, General Purpose, Matural or in Colo MIL-W-530D, Amd. (Cont'd)	<u>co</u>	ffer	Min	lax.		Total	Face & Bock	Binder	Stuffe	ır				
Type III- Heavy- weight webbing	(±3*) 3/* 8/* 8/* 3/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/* 8/*	Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton Cotton	1.00 1.20 1.33 1.50 2.00 2.40 2.65 4.00 4.80		5/8 3/4 1 1-1/4 1-1/4 1-1/2 2 2-1/2 3		57 65 81 89 97 113 145 177 209	5 6 8 10 10 12 16 20 24	12 14 18 11 22 26 34 42 50	24 24 24 24 24 24 24 24 24 24 24 24 24 2	(warp) 380 460 550 650 720 860 1100 1360 1560			
Type IV- Webbling Special Use	(4) 8/4 8/4 8/4 8/4 10/5 10/5 8/4 8/4 8/4 8/4 8/7	Cotton Cotton Cotton Cotton Cotton	0.90 1.90 2.25 3.40 4.30	:	5/8 1-1/4 1-3/8 2-1/4 2-1/4		48 94 119 167 196	7 15 18 10 32	99	40 46 40 28 38	255 500 800 1200 1100		0.135 ma	
Type V- Webbing multiple weave	12/3 12/3	Cotton	2.75	-	(+1/32) <b>1-</b> 3/4	333				100	1000		1/8 <u>+</u> 1/6	ŀ
Type VI- Webbing special (applier and wicks) (Continued)		Cotton	0.53	-	(+1/16) I		49	11		18	350		o <b>.080<u>+</u>o.</b>	.005

	NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Regultrements)
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MIL-W-530D (Cont'd) For additional information see page 254.
Type III
Type IV
Type V
Type VI
(Continued)

NOMENCLATURE	Yorn Number	Fiber	Wei		Width	Worp Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min.	F 90-	Thick- ness Inch	Ends Fer	Line
		1 1	01/610	JD J.				(5100)	(5100)	(5030)	Cerrier	
Braid, Textile Wo (Nylon, Mohair, and Cotton: Mohair and Cotton)(Flat) MIL-B-993C	rp Fill Stu	ffer	Mir	AOX		Total Face Binder Stuffe 8 Bock	<b>b</b> r					
Type I- Mohair outer covering Class 1- 3/3 plain stitch (Hercules) Sizes:	Cotton 40/2 Mohair 2/28	Cotton & Mohair: 28's, worsted.	45 62 78 100 110 166 182	:	3/4 1 1-1/2 1-3/4 2 2-1/2 3	16/3 24/3 32/2 44/2 48/2 48/3 48/4	26 26 26 26 24 19	110 170 190 220 300 360 390	Car 1 1 1	of rie:s 49 73 73 73 33 45 45	2 2 2 2 5 5	8 12 16 22 24 24
Class 2- 8/8 basket or diamond stitch			112	-	1-3/4	32/2	8	230	,	66	4	16
Class 3- 2/2 plain stitch Sizes:	Cotton 40/2 or 2 Mchair 2/28	20/2	24 34 68 90	:	1/2 3/4 1-1/2 1-3/4	12/2 or 4 16/2 or 4 32/2 or 4 32/4	21 21 21 18	60 80 150 200		2 <b>5</b> 33 6 <b>5</b>	2 2 2 2	6 8 16
Type II- Nylon & mohair outer covering, 2/2 plain stitch Sizes:	Cotton - 40/2 Mohair 2/28	Cotton, Mohair: 23' worsted & Nylon: con- tinuous fil ment 210 de 34 filament	s	:	1/4 1/2 1-1/2	6/6 12/6 32/6 40/6	23 22 22 22 22	40 80 210 265		13 25 65	2 2 2 2 2	3 6 16 20

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-B-592C Type I Class 1 Class 2 Class 3 Type II	Finished braid shall be singed (in either yarn or braid).	Color (1-6). Standard sample available (3). Colorfastness- Standard sample available (5622-5651-5660-5680-5682).	Type I braid shall be made with a cotton warp with a mohair outer covering. Type II braid shall be made with a cotton warp with a nylon-mohair outer covering. Shrink-age-Type I, Class 3: shall not shrink more than 2% length (5558).	

NOMENCLATURE	Yorn Number	Fiber	Weight	Width	Warp Yarns - Full Width	Picks Per Inch	Brecking Strength Lb. Min.	Elongo- tion % Mox.	Thick- ness Inch
	100	n	Oz/Lin Yd				(5100)	(5100)	(5030)
Tope, Insulating	Werp Fill SN	iffer	Min Max		Total Face Binder Stuff	br .			
(Electrical) line Minish, Main MIL-1-638A	<u></u> ( <u>+</u> 5≸)			(4)	Bock				
• ••	30/1 38/1 30/1 30/1 20/1 30/1 20/1 30/1 20/1 30/1	Cotton Cotton Cotton Cotton Corton		1/2 3/4 1/4 1/2 3/4	36 56 18 36 56 72	35 35 35 35 35 35 35	15 25 15 25 30 40		0.005 0.005 0.007 0.007 0.007
	20/1 30/1 20/1 30/1	Cotton Cotton		1 1-1/2	72 108	35 35	40 60		0.007

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-638A	Type shall be unbleached, and no finish shall be applied other than calendering. Tape shall have smooth, even surface commonly known as linen-finish. pH: 5.0 - 3.0 (2811).		Weave shall be plain, with woven selvages on each side.	Intended Use-Tape is Class 0 insulation, for use in cables and similar items, with continuous operating temp. limit of 90°C., and, in general, is used when combined with a liquid dielectric to form Class A insulation with a continuous operating temp. limit of 105°C.

NOMENCLATURE	Yorn Number	Fiber	Weight	Width lach	Worp Yerns -Full Width	Per	Bracking Strangth Lb. Min.	Elonge- tion % Max.	Thick - nees inch	Number of
			02/gr048	74			(5100)	(5100)	(5030)	Carriers
Braid, Textile,	Marp Fill Stu	ffer	Min Ma	1	Total Face Binder Shift	er .		* 1,	. 2	
Cord-Edge NII-B-1667D				(Flat Braid Section)	Bock					
Class 1- General Officers, Army		Cotton, continuous filement,	22.0 -	3/16- 1/4	Cover: 4(150 denier) or	Cover: 26(150 denier) cr				Cover: 19 Flat Braid: 21-25
Class 2- Offi- cers Army		regenerated rayon of 150+7.5 den.		3/16- 1/4	3(300 denier) Flat braid:	23(300 deniar) Flat	in the second			(For All Classes)
Class 3- Warrant Officers, Army Class 4- Enliste		& 24 file- ment min. or 300+15 den. & 44	22.0 -	3/16- 1/4	1/(_1 car- rier) 12(25 car- rier)	braid: 26	•			
Hen, Army	-	filement min. & non-			,					
Class 5- General Officers, Air		tarnishable metallic		3/16 <b>-</b> 1/4	Cover:	Cover:				
Force		cellophane: 0.020 in. vide & 6500			Flat braid: Same as Class 1	Flat brai 26	id:			
Class 6- Officer Air Force		yds/lb.	22.0 -	3/16- 1/4	Cover: 4 or 3 Flat braid: Same as Class 1	Cover: 23(150 denier or 21 (300 den	.)			
Class 7- Airmen, Air Force	,		22.0	3/16- 1/4	Cover: 4 or 3 Flat braid: Same as Class 1.	Cover: 26 or 23 Flat bra: 26				

HOMENCI, ATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-B-1667D Class 1 Class 2 Class 3 Class 4 Class 5 Class 6 Class 7		Color (1). Standard samples available (3-6). Colorfastness- Standard sample available (4680-4622-5651-4660).	Flat braid section and cord section shall be braided together in one operation on a cord-edge braider. Cord suction shall consist of a cord cover braided around a cotton core. Width of finished cord section shall be 3/32-1/8 in. Core shall be 4 cotton stuffer yarns. Each yarn shall be a 20/3/4 ply cord with permissible + or - count on the singles yarn. Classes 1, 4 and 7; cord cover shall be braided with 1 color of rayon yarn. Class 2: cord cover shall be braided using 14 carriers of black rayon yarn a 5 carriers of black rayon yarn a 5 carriers of black rayon yarn equally spaced. Class 3: cord cover shall be braided using 14 carriers of black rayon yarn a 5 carriers of black rayon yarn a 5 carriers of black rayon yarn a 5 carriers of silver grey rayon equally spaced. Class 5: Cord cover shall be braided using metallized silver color cellophane (1 end/carrier, 21 picks/in.) Class 6: Cord cover shall be braided using 9 carrier cellophane, of reasining 10 carrier with every other carrier out, 5 carriers blue rayon.	

NOMENCLATURE **	Yera Number	Fiber	Woly	At Widt Inc		Picks Per Inch	Breaking Strength Lb. Min.		Thick- nees inch	
	Louis		02/gros	s yd			(5100)	(5100)	(5030)	
Tere, Textil', Nylon, Novem, Units or Dyed 101-1-22330	Norp Fill  Sh	210 (+9%) dem., bright high ten- acity poly- smide of hexamethy- lene dis- mine & sdi- pic acid or its deriva- tives	9.0 : 11.0 13.5 17.0 22.0 22.0	(+1/ (-1/ - 1/ - 5/ - 3/ - 1 - 1-1/	127	40 40 40 40 40 40	90 1½0 190 2½0 265 290			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
: <b>ai-</b> 7-2293D		Color- Natural (white) or dyed as specified. Standard samples available (3). Colorfastness- Standard sample available for dyed tape (5622-5614-5660).	Tape shall have a plain weave with woven selvages on both edges.	Intended Use- In the fabrication of clothing and individual equipment.

NOMENCLATUR	E Yarn Number	Fiber	Weight	Width	Warp Yerns - Ful	l Width	Picks Per inch	Breaking Strength Lb. Mir (5100)		Thick- necs inch (5030)	Sing for Pli	o. of the Y r Fin led Y (min	arns ml mra
Webbing, Textil	e, Warp Fill Stef	fer	Min Mex		Total Face Bine	ler Stuff	er						Total Control
Woven Mylon			·		8	•							TH
MII-W-4088E ( And. #3	GL) Denier &				Bock							1	. 2724
AMIL. #3	Filement			(4)							v	_	
	SAB F			(4)							W	В	
Types: I	420/68 840/140	Bright,	- 0.28	9/16	92		34	500	0	.025040	•	_	1
Ia	420/68 840/140		- 0.32	3/4	92 108		36	600		.025035	ī		1
II	420/68 840/140			1	134		36 34 34 34 21	600		025040	ī		ī
121	420/68 840/140		- 0.52	1-1/4	168		34	800	0	.025040	1	•	ī
IV	420/63 840/140		- 1.20	3 ,	400		34	1800	0	.025040	1	•	1
VI.	840/140 840/140		- 1.15	1-23/32	114		21	2500		.030050			2
AII	840/140 840/140			1-23/32		27	24	5500		.060100	2	1	5
VIII VIIIa	840/140 840/140 840/140 840/140		- 1.60	1-23/32	166		18	3600		070-040	2	•	3
	840/140 840/140		- 2.80	3	280		18	6300		.040070		•	2
TX 2	84C/140 840/140			1-23/32		31 31	28 22	9000		.065100		2	2
ÎП	420/68 840/140		- 9.85	1-23/32	257 : 266	5 <b>T</b>	34	8700		.110140		1	2
XIII	840/140 840/140	Melting	- 2.90	1-23/32		34	24	1200 6 <b>50</b> 0		.025040		•	1
XIV	210/34 210/34	point: 4820	- 0.80	1/2		,-	36	1200		.030120 .070100	2	1	2
XX	210/34 210/34	F. min. (5)	1.25	2 ~~	91 88		15	1500		.035050		•	10
XVI	840/140 840/140		- 2.00	1-23/32	198		17	4500		.045080		:	2
XVII	840/140 840/140		- 1.15	1	114		15	2500		045070		-	2
XVIII	840/140 840/140		- 2.05	1	260		18	6000		100-160		-	2
XIX	840/140 840/140		- 4.10	1-3/4	280		18	10000		105-130			2
XX	840/140 210/34		- 3.25	1		26	19	9000		190- 235	5	1	10
XXI	210/34 210/34		- 1.70	1-1/4	260		25	3600		065-085	5	-	10
XXII	260/17 840/140		- 3.50	1-23/32	259		18	7300	0	.090120	10	-	2
XXIII	840/140 840/140		- 3.70	11/8		?7	15	12000		200300	3	2	3
XXXX	840/140 840/140		- 2.25	1-15/16	244		17	5500	0	.055075	2	-	3
XXX	840/140 840/140		- 1.50	1		20	22	4500		.090125		1	2
XXXI	840/140 840/140		- 4.90	1-3/4	235		<b>1</b> 6	15000	0	.170200	5		3

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-4088E Type I Type Ia Type Ia Type III Type IV Type VII Type VIII Type VIII Type VIII Type XX Type XX Type XX Type XXI Type XVII Type XXII  Type XXIV Type XXVI Type XXVI Type XXVI Type XXVI		Color (1). Standard sample available (3). When dyeing is required, webbing shall be yarn or piece dyed using dispersed, acid, metallized, or chrome dyes. Colorfastness- Standard sample available (5660-5614). See spec. for instructions on colored identification yarns.	ed (4.5.1). Weave- Types I, Ia, II, III, IV, VI, VIII, VIIIa, XII, XV, XVI, and XVII: weave shall be 2 up. 2 down	

HOMENCLATURE	Yern Number	Fiber	Weight CE/Ya	Mileson de re	Clorp Yerns - Full Width	Picks Per inch	Breaking Strongth Lb. Mir.	Elongo- tion % M2x.	Thick- ness Inch	Shrinkage
· ·			July 2.0				(5100)	(5100)	(5030)	(Warp)
Webbing, Textile, W Wowing, Cotton and Rayon HILL-k-1576 (UMAP)	wp FM  200		10in Max (+0.025)	(+1/32)	Total Face Binder Stuffe Back	<b>F</b>				
Type I		Herp: con- tinuous filement	0.125	5/8	106	30	50		0.015- 0.020	25 max.
2ypo 11		viscese rayon Fill: cotton,	0.175	7/8	148	30	70		0.015- 0.020	2% max.

NOMENCLAY URE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-1576 Type I Type II	(5) When of dyestuffs, detergents, or other chemicals of finishing agents which would cause deterioration in storage or cause dermatitis on prolonged intimate skin contact is prohibited.  H: 5.8 = 9.0 (2811).	Color (1-6). Colorfastness- "good" (5614-5651-5620-5660- 5682).	Weave shall be plain, 1 up, 1 down.	Intended Use- In the construction of flying clothing.

The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon

NOMENCLATURE	Yorn Number	Fiber		right /yd	Width Inch	Warp Yerns	-Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Eleage- tion % Max. (5100)	Thick- nees tach (5030)		enie:	
Tape, Textile and Webbing, Textile, Reinforci Nylon WIL-T-5038D	Marp Fill Sh	iffer	Mi	Mez	( <u>+</u> 1/32)	Total Face & Back	Birder Stuff	er .			÷	٧	7	B.
Type II- Tape, herringbone twill weave		Bright, high ten- acity, heat & light	:	0.40 0.60 0.80	1 1-1/2 2	96 144 192		40 40 :.0	900 1300 1700	18 18 18	0.025- 0.035	840 840 840	210	
Type III- Tape, plain weave		resistant polyamide of polyhexathylenetaxine &	:	0.12 0.15 0.20 0.30 0.40	3/8 1/2 3/4 1 !-1/2	7 ⁴ 100 150 200 300		33 33 33 33 33	200 250 400 525 900	18 18 18 18 18	0.015-	210 210 210 210	420 420 420	
Type IV- Webbing		adipic sold or its der- ivatives. Melting point: 250°C min.		0.35 0.40 0.50 0.60 0.75	1/2 5/8 1 1-1/8 1-1/2	99 123 197 221 293	8 10 16 18 24	48 48 48 48	550 625 1000 1100 1500	18 18 18 18 18	0.030-	420 420 420 420 420	420 420 420	420 420 420 420 420
Type V- Tape, herringbone twill weave			-	0.20	9/16	42		32	500	18	0.020-	840	<b>420</b>	
Type VI- Tape, herringbone twill weave			•	0,20	3/4	150		38	425	18	0.020-	210	420	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-5038D Type II Type III Type IV Type IV Type V Type VI	(5) pH: 5.0 - 8.5 (2811).	Color- Types II, III, IV and V: color shall be natural unless other- wise specified. Type VI: (1). Standard samples available (3). Colored tape and webbing shall be yarn or piece dyed. Colorfastness- Standard sample available (561%).	Tape or webbing shall not lose more than 25% of original breaking strength on exposure to light and heat (4.3.2-4.3.3). See spec. for weave instructions.	Intended Use- For binding & reinforcing applications in parachute packs and similar purposes and for equipage.

NOMENCLATURE	Yern Number	Fiber	Wel	ght	Width Inch	Worp Yerns -	Full Width	Picks Per Inch	Brooking Strength Lb. Min.	Elongo- tion % Max.	Thick- ness inch	
			Lin Yd	\ps					(5100)	(5100)	(5030)	
None and Welfilm, W. Nortile, Rayon MnL-1-52370		iffer •	Ma	Mex	Vide II	Total Face E B Bock	Ninder Stuff	ir St				
Type I- Flat weave tape		Bright, multifile- ment vis- come rayon	80	:	(\$) 9/16 1-1/8 1-1/4	116 94 116		36 36 30	50 100 140			
Type Is- Flat weave willing	de e	Fill: 2 5 den. min.	100 40 32 15	:	3/8 9/16 1 1-5/8	30 280 90 136		36 21 36 36	160 500 500 750			
Type II- Tubular weave webbing			125 100 40 40 23		1/8 3/16 1/2 9/16 5/8	23 30 81 81		24 30 30 30 52	150 200 500 500 900			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
NII-T-5237C Type I Type Ia Type II	(5) Tape or webbing shall have a smooth even finish. pH: 5.5 - 8.5 (2811).	Color- Unless otherwise specified, color shall be the natural white of the finished rayon yarn. Colorfastness- "good" (4630). When specified, tape or webbing shall contain 1 end of varp yarn dyed Red to match Cable No. 70180 and woven into the center of the face of tape or webbing. Use of solution dyed yarn is permissible.	See spec. for weave instructions.	Intended Up- In the manufactur- of parachute canoples for bombs

NOMENCLATURE	Yarn Number	Fibor	Weig yd/1b	4.	Width	Worp	Yerns - Full Vi	lieth	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elonge- tion % Max. (5100)	Thick- ness Inch (5030)	Den	der
Tape, Parachute	Warp Fill Stv	iffer	Min	Max		Total	Face Binder	Stuff	90 -		.4 -1		W	7
enopy, Textile, ylon MIL-T-5600F (AS	3)						Bock -							
Class A- Extra lightweight Types: I II III IV V	۰	Class A: Semi-dull normal ten- acity light resistant nylon.		•	(4) 0.250 0.375 0.625 1.250 2.009	72 104 237 352 537	Se1- vage 12 12 32 32 32 32		140 140 = 740 140	13 18 43 65 96	13 18 18 18 18		20 20 20 20	5555
Class B- Light- weight Types: I III IV V V		Classes B, C, D & E: bright high ten- acity, heat & light resistant nylon.	360 210 120		0.250 0.375 0.625 1.250 2.000 5.000	86 126 237 392 657 1616	12 32 32 32 32 32 32 32		118 118 118 118	22 33 70 120 200 100 (1b/in) (5104)	18 18 18 18 18 18		30 30 30 30 30	70 70 70 70
Class C- Medium weight Types: I III IV V (Continued)		All Classes polymmide of bexame- thylene di- smine & add pic acid or its deriva- tives. Multi ing point: 250+6°C.	770 520 - 335 160 100	:	0.250 0.375 0.625 1.250 2.000	100 148 227 457 757	35 35 35 35 35 35 35		82 82 82 83 80	39 58 90 185 300	% % % %		40 40 40 40	40 40 40 40

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ende/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-560&P Class A Class B Class C (Continued)	Yarn of tape shall not be bleached in any manner or pro- cess. pR: 5.0 - 9.0 (2810).	Color- Unless otherwise specified, color shall be natural, except for Class B, Type VI, which shall be dyed international orange, color No. 12197 of Fed. Std. No. 595, and Class C, Type V, which shall be yarn or piece dyed yellow, Air Force color No. 1365 (3). Colorfastness- Standard sample available (5660-5651).	except that for Class E, Type VI, warp ends shell weave 2 ends as 1. Unless otherwise specified, selvage weave for Classes A, B, and C shall be a double weave of conventional hatband type. For Classes D and E, there shall be no add- itional selvage ends. Air	

	Yers Number	Fiber	~	ight #3 1.b	Width	Worp	Yarns - Full \	Midth	Picks Per inch	Streaking Strength Lb. Mir. (5100)	Elongo- tion % Max. (5100)	Thick- ness Inch (5030)	Den <u>i</u>	ler
Tape, Parachute Canogy, Textile, Brion HIL-T-5608 (ABG) (Cont'd)	Fili Stuff	lor <del>2</del>	Min	Max		Total	Face Binder & Back	Stuff	<b>9</b> r				W	P
Class D- Heavy weight Types: I	See	p. 265.	80 45	:	(4) 1.250 2.000		Sel- vage 0 0		52 52	280 460	1ಚ 18		210 210	210/ 210/
Class H- Extra heavy-weight Types: I II III IV V V	See	p. 265.	50 30 22 17 13		1.250 2.000 2.000 2.000 2.000 2.000	240 378 280/3 378/3 260 350			36 36 36 36 26 24	650 1000 1500 2000 3000 4000	18 18 - -		210 210 420 420 840/1 840/1	210/ 213/ 420 420 840/ 420/

NOMENCLATURE FINISH SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
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MIL-T-5608F (Cont'd) Class D Class E

For additional information see page 265.

NOMENCLATURE	Yorn Number	Fiber 4	Weig		Width	Worp	Yarns - Full W	idth	Picks Per Inch	Breaking Strength Lb. Min. (5100)		Thi nee inc
Webbing, Textile, W	tarp Fill Stu	ffer	Min	Max		Total	Face Binder	Stuffe	r			
Mylon, Tubular Mr-W-005625F (GI					( <u>+</u> 1/16)		Bock				gr CO	Max.
Sizes:		Bright, high tenacity, heat & light resistant polyamide of hexamethylene diamine & adi- pic acid or i- derivatives. Melting point 482°F. min. Singles yarn, 840 denier +55, 140 filament.	ts:	0.50 0.60 0.70 1.05 1.70	1/2 9/16 5/8 3/4 1	111 137 81 109 159		# ·	26 26 26 26 26 26	1000 1500 1250 2300 4000		0.09 0.09 0.10 0.12 0.12

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOT
NT L-W-005625P		Color-Except for identi- fication yarns (see spec.) webbing shall be furnished in natural and Yellow No. 1365 as specified. Standard samples available (3). When dyed webbing is required, webbing shall be piece dyed. Colorfastmuss-Standard sample available for dyed webbing (5660-5614). Webbing shall not be bleached in any manner or process.	(4.3.4). Webbing shall lose no more than 25% of	Intended Use- For parachate construction

NOMENCLATURE	Yarn Number	Fiber		eight lin yd	Width	War	p Yarne	-Full W	ridth	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elmgo- ti. % Max. (5100)	Thick- ness Inch (5030)	Ye	rn Ply Min.
Tape and Wabbing, We Textile, Cotton Reinfurcing, Wowen NII-7-5001C	rp Fill  St	flor	M	Max	(12/20)	Total	Face Back	Binder	Stuff	er				W	7
Type I- Plain Sizes:		Cotton	:	0.11 0.15 0.22 0.28	( <u>+</u> 1/32) 1/4 3/8 1/2 5/8	7 10 14 18 22				20 20 20 20 20	80 120 150 170			# #	2 2 2 2
Type II- Double herringbone Sizes:		Cotton	:	0.33	3/4 1	30 142				20	200 250			‡ 2	_
			:	0.22 0.29 0.36 0.43	3/4 1 1-1/4 1-1/2	212 284 356 426				48 48 48 48	165 220 275 330			2 2 2 2 2 2 2	5 5 5
			:	0.50 0.57	1-3/4 2	496 5 <b>6</b> 8				48 48	375 425			2	2
Type III- Tvill Sises:		Cotton	-	0.10 0.12 0.14	1/2 5/8 3/4	64 85 96				60 60 60	45 55 75			2 2	1 1 1
Type V- Plain (Transverse cord) Sizes:		Cotton	-	0.65	1	48				16	350			4	4
Type VI- Monelasti	.e		-	1.30		96	05	~	200	16	650			4	4
Sizes:		Cotton	-	0.23 0.98	5/8 1	:	95 112	<b>22</b> 30	37 <b>31</b>	46 52	80 375				spec.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MILANTOGOLC Stype I Style II Style III Type V Type V	Type I tape and webbing shall be compatible with aircraft dope. Dope shall dry within 45 min. and show no signs of cracking and peeling when applied to finished tape and webbing as specified in 4.4.7. pH: 6.0 - 8.0 (2811).	Color- Unless otherwise specified, color for all Types shall be natural (unbleached) When an Olive Drab color is specified, it shall match TCA Cable No. 66022, Shade S-1 (U.S. Army Olive Drab). Colorfastness- "good" (5651-5630-5632-5660).	of twill, 1 at center & 1 on each side of center mid- way between center & edge. All ends shall be weven	Intended Use- Type I: For reinforcing tape on cloth under lacing cords w airfoil section. Types II, III, V and V.: For building and reinforcing applications in paracoute packs.

NOMENCLATURE	Yorn Number	Fiber	We	ight	Width	Worp Yerns - Full Width	Picks Per Inch	Breaking Strength Lb. Min.	Elonge- tion % Max.	Thick- ness Inch	
			02/1	in yd				(5100)	(5100)	(5030)	
Webbing, Textile, Wilstie, Cotton MIL-V-56648 Class 1		ffer Cotton	Min	1.00	2	Total   Face   Binder   Stuff B Bock				.016046 .016046 .016046 .016046 .016046 .013061	
Class 2		Cotton	-	2.30	1-1/2					.094156	
Class 3		Cotton	-	2.35	1-1/2					.094156	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-5664B Class 1 Class 2 Class 3	рн: 6.0 - 9.0 (2811).	(1). If Sage Green is specified, webbing shall be dyed to match shade sample for Sage Green color No. 531. When natural is specified, webbing shall be unbleached. Class 2: Natural or dyed (1). When specified, face chall be black & back white. Black shall	See spec. for amount of load to produce 50% elongation & for low temperature elongation & for resistance. Drift of load on webbing, elongated & maintained at 50% elongation for 4 hours, shall be not more than 20% (4.6.2.). After webbing has been elongated and maintained at 50% elongation for 10 min, and then allowed to rest for 10 min, the webbing tension set (change in length of sample) shall be not more than 5%. Same requirement shall hold after heat aging.	masks and goggles, parachute packs and harnesses, service

NOMENCLATURE	Yorn Number	Fiber	Weig	<b>h</b> t	Width	Warp	Yorns ·	-Full Widt	Picks Per Inch	Breaking Strength Lb. Min.		Thick- ness Inch	Ply of Warp Ends
	<b>*</b>		oz/y	rđ						(5100)	(5100)	(5030)	Min.
Webbing, Textile, V Cotton Warp MIL-W-5005E, Amda	100	ffer	Mini	Mex		Total	Face Back	Binder Stu	iffer				
Class 1A- Undyed à not fungus proofed Class 1B- Undyed à fungus proofed Class 2A- Dyed à not fungus proofed Class 2B- Dyed à fungus proofed Class 3- Resin dyed à fungus proofed during dyeing	×d.	Warp: Cotton Pill: For types I-VII, IX, XII, XIII, XVII, XVIII, and XIX- Cotton. For Types VIII, XV, and XVI- bright, high tenacity, heat & light resistant polyamide of hexamethylen diamine & ad pic acid or	I, e		(4)								
Types: I II IV V VI VII VIII IX X XII XIII XV XVIII XVIII XVIII XVIII	( <u>+</u> 3≴) 11/9 10/4 8/	derivatives. Unbleached.		2.50 2.50 2.10 3.00 3.00 4.65 3.50 1.25	9/16 1 1-1/4 3 5 1-3/4 1-3/4 1-3/4 1-3/4 1-3/4 1-3/4 1-3/4 2-1/2	68 122 158 200 350 116 122 132 175 160 220 126 150 124 70 270	139	33	20 20 20 16 16 11 24 10 22 20 20 11 20 11 20 21	350 575 750 1900 3100 1800 2600 2900 4500 5000 1000 4500 2700 1000 1250 2500		040050 040050 040050 050100 050100 070090 140170 075095 090115 130150 095115 095115 075095 050060 130+.01	4443357766466754

NOMENCLATURE	FINISH	SHADE AND COLORFASTINESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-5665E Class 1A Class 1B Class 2B Class 2B Class 3 Type I Type II Type III Type IV Type V Type V Type V Type VII Type IX Type IX Type XXII Type XXII Type XXII Type XVI  Type XVII Type XVII Type XVII Type XVII Type XVIII Type XIXII	(5) Webbing shall be subjected only to light spring calendering to smooth out surface. Class 1B, 2B & 3 shall be treated with either copper-8-quinolinolate or 2,2' methylene-bis-(4-chlorophenol) mildew inhibitor agents as specified. Copper-8-quinolinolate: Webbing shall be mildew resistant treated by evenly depositing within the webbing a min. of 0.13% to a max. of 0.40% copper as metal from copper .8-quinolinolate, using method of application outlined in spec. 2,2' methylene-bis-(4-chlorophenol): Webbing shall be treated to resist mildew with 1.1-1.6% of 2,0' methylene-bis-(4-chlorophenol), using method of application outlined in spec. ph: For Classes 1B, 2B & 3: 5.5 - 8.5 (2811).	is prohibited (6). Shade of dyed webting prior to application of finish shall match standard sample. Class 3: Resin dyed with fungus resistant treatment added during dyeing process. Dyed and finished webting shall match standard sample. Colorfastness- Classes 1A, 1B, 2A & 2B: standard sample available	Weave- Types VII & X: See spec. for diagram. Weave for Type XIX shall consist of a face warp & a back warp bound together by a binder warp & a filling. Face warp shall weave plain, with the picks that show on the face, and the back warp shall weave plain with the	drop kits, cargo the down lines, hoists and slings, life raft belts and crew bunk safety belts. Copper-8-quinolinolate is to be used in fungus proofing of webbing intended for equipage

NOMENCLATURE	Yarn Number	Fiber	Wei	i <b>ght</b> In yd	Width	Warp Yarns -Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)		Thick- ness Inch (5030)	Yern	ı Pl <b>y</b>
Tape, Textile, Nylon, Parachute, Construction	Marp Fili Stu	ffer	Min	Max		Total Face Binder Stuffe Back	)r				٧	r
Type I		Mylon (a)	-	0.40	( <u>+</u> 1/16)	206	1414	525	16 0	.025045	1	4
Type II		Mylon (a)	-	0.145	1	104	58	300	14 0	.010030	1	2

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-6134B Type I Type II		Color- Unless otherwise specified, color for both Types shall be natural, except for identification yarns for Type I. If color is specified, specific colorfastness requirements shall be as specified by procuring activity.		Intended Use- In the manufacture of parachutes. Type I: In skirt bands for parachutes. Type II: for reinforcing bands on parachutes.

white with the wife of the state | NOMENCLATURE                                                        | Norm<br>Number | Fiber                                               | Weight<br>os/yd                              | Width           | Warp 1 | forns -             | Full Width    | Picks<br>Per<br>Inch | Breaking<br>Strength<br>Lb. Min.<br>(5100) | Elongo-<br>tien % Mox.<br>(5100) | Thick-<br>ness<br>Inch<br>(5030) | Y  | arn | Ply |
|---------------------------------------------------------------------|----------------|-----------------------------------------------------|----------------------------------------------|-----------------|--------|---------------------|---------------|----------------------|--------------------------------------------|----------------------------------|----------------------------------|----|-----|-----|
| Webbing, Textile, William, Later<br>Impregnated<br>MIL-W-86300, And |                | iffer                                               | Min Max                                      | (4)             |        | Face (<br>B<br>Back | Sinder Stuffe |                      |                                            |                                  |                                  | ٧  | P   | В   |
| Types: 7                                                            |                | Bright ny-<br>lon. All<br>Type: but<br>IV: 210 den. | - 2.40<br>(initial)<br>- 2.65<br>(impregnat  | 1-15/16         | 500    |                     |               | 22                   | 5300                                       |                                  | .075095                          | 10 | -   | 6   |
| п                                                                   |                | 34 filament.                                        | - 2.25<br>(initial)<br>- 2.45                | 1-15/16         | 196    |                     |               | 17                   | 5500                                       |                                  | .055075                          | 10 | •   | 10  |
| ш                                                                   |                | All yarn shall<br>be sunlight<br>resistant<br>type. | l= 4.20<br>(initial)<br>- 4.60<br>(impregnat | 3<br>ted)       |        | 309                 | 37            | 28                   | 8200                                       |                                  | .080100                          | 10 | 7   | 10  |
| IA                                                                  |                |                                                     | - 5.10<br>(initial)<br>- 5.60<br>(impregnat  | 1-15/16<br>ted) |        | 246                 | 40            | 21                   | 13000                                      |                                  | .170180                          | 5  | 4   | 10  |
| ٧                                                                   |                |                                                     | - 2.90<br>(initial)<br>- 3.20<br>(impregnat  | 1-23/32<br>ted) |        | 225                 | 29            | 22                   | 6500                                       |                                  | .080100                          | 10 | 4   | 7   |
| A1                                                                  |                |                                                     | - 3.70<br>(initial)<br>- 4.05<br>(impregnate | 1-23/32<br>ted) |        | 305                 | 37            | 32                   | 8 <b>70</b> 0                              |                                  | .110130                          |    |     | 10  |
| AII                                                                 |                |                                                     | - 1.70<br>(initial)<br>- 1.90<br>(impregnate |                 | 132    |                     |               | 18                   | 3600                                       |                                  | .055 <b>0</b> 90                 | 10 | •   | 10  |

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-863OC Type I Type II Type III Type IV Type V Type V Type VI Type VII	latex compound contain the necessary curatives & anticoxidants. Webbing shall be saturated by total immersion in a latex bath for a period of time sufficient to allow penetration to the core of the web. Excess may be removed by suitable devices. Totally impregnated webbing shall then be properly dried	artiled, and before impregnation, Color penetration shall be good in both warp & fill. Metallized or chrome dyes shall not be used. Colorfastness- "good" (5660-5614).	tions. Webbing shall lose not more than 5% of original stre-	safety devices.

NOMENCLATURE	Yorn Number	Fiber	Weight oz/lin yd	Width	Worp Yerns - Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Thick- nees inch (5030)	
Webbing, Textile, V Cotton, Stow-Loop NIL-W-9406 (USAF		ffer Cotton	Min Max 8.19 9.0	3-1/2 ( <u>+</u> 1/8)	Total   Face   Binder   Stuffi B Back	Bf .	1100	.085 <u>+</u> .015	

Tape, Textile,

I-Inch
MIL-T-10372A (MU) (5102)
26/2 30/2 Cotton 0.2C - 1 114 46 140

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requiremen: 3)
NII-W-9406	or other chemical or finish- ing agents which would cause deterioration or affect color in storage or cause derestitis	and loops shall be nat- ural, except for 1 bind- er thread, which shall		Intended Use- In the manufacture of troop-type parachute packs.

MII_T-10372A

Color- Shall be Clive Drab shade No. 7 (6). (2)
Weave shall be a 4-harness herringbone twill, 2/2, with 5 divisions alternating to the right and to the left. Cloth shall be mildew resistant and non-toxic on the skin.

Intended Use- For use with the ABC-M4 dust respirator.

MENCLATURE	Yorn	Fiber	Weight	Width	Motb	TOTAL -	- FWII	Width	Picks Per Inck	Strength Lb. Min.	tion	Thick- ness Inch	
	ilu.edifi		os/lin yd		<u> </u>					(5100)	(5100)	(5030)	
bbing, Textile,	Warp Fill S	tuffer	Mir Max		Total	Foce	Binde	r Stuffe	)r				
wen, Low Elonga HII-W-10828C (C	tion					8							
And. 1	u)					Bock							
	_		(±5 <b>%</b> )	( <u>+</u> 1/16)	Body	Edges							
Amd. 1	12/3	Cotton & continuous	(+5%) 1.00	( <u>+</u> 1/16)	Body 78		14	15	56	600	8 at 600	1b.	
And. 1 Type I- Low strength Type II- High	12/3	continuous filement	1.00	1.0	78	Edges 18	14						
And. 1 Type I- Low strength	_	continuous	(±5%) 1.00 2.05	( <u>+</u> 1/16) 1.0	Body 78	Edges	1 ¹ 4	15 88	56 <b>5</b> 6		8 at 600 8 at 2000		
And. 1 Type I- Low strength Type II- High	12/3 12/3	continuous filement seponified	1.00	1.0	78	Edges 18	14			2000		1b.	

Class	1-	Undyed
Class	2-	Undyed,
		pellent
		resis-
tent f		
Class		
		pellent
		resis-
tent f	in	ish.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-10828C Type I Type III Type IIII Class 1 Class 2 Class 3	(5) Class 2 * 3 webbings shall be water repellent & mildew resistant treated. The water repellent shall consist of aluminum salts of suturated carboxylic acid (such as formate, acetate, palmitate, or steam ate) mixed with refined mineral and vegetable waxes. Product shall be applied either as an aqueous emulsion or as a water-free solvent solution. Dynamic absorption of treated webbing: 40% max. Mildew resistant treatment shall be through an even depositing of 0.°3-0.40% copper as metal from copper-8-quinolinolate, by the method outlined in the spec. Webbing shall be dried after finishing with sufficient tension for elongation. pH: Classes 2 & 3: 5.5 - 8.5 (2811).	Class 3 webbing shall be Olive Drab No. 7, and the color of finished webbing shall match standard sample (3). Color of Class 2 webbing may deviate from natural by that degree imposed by the finishes. Class 3	See spec. for weave diagrams.	Intended Use- As framing in manufacturing of tents and liners, and backs for packboards, and other special applications requiring low elongation webbing

NOMENCLATURE	Yern Number	Fiber	Weight oz/lin yd	Width	Worp Yarns -full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Thick- ness inch (5030)	
	Verp Fill Stu	ffer	Min Mex		Total Face Binder Stuff	er .			
Cotton for Bandoles MIL-T-13452A (ORI	0)	Cotton	0.35 0.39	1-3/8 (-1/8) (no +)	Bock		185 wary 66 fill		

Webbing, Woven, Wilew-17337A (MAVY)				( <u>+</u> 1/16)	•	Voven Tubular			
Sizes:	Bright, high ten- acity, con- tinuous fila- ment mylon, 840 design.	•	0.71 1.07 1,42 2.2	1 1-1/2 2 3	119 179 239 356	96 144 192 298	22 34 46 68	48 48 48	1200 1800 2200 3200

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ende/ Cerrier, etc.)	NOTES (Not Specification Requirements)
MII-T-13452A	(5) Chloride content; no more than 0.020%, pH: 7.0 - 8.0 (2810).	Color- Shall be Olive Drab No. 7, and shall be produced by vat dyes to match approved standard shade (3-6). Chromium salts shall not be used for oxidation of vat dyestuffs. Colorfastness- Standard sample available (5651- 5610-5600-5660).	Weave: Unless otherwise specified, weave shall be 2/2 herringbone twill.	Intended Use- In making bando- leers for small arms assumition.
MIL-W-17337A	(5) No extraneous weighting	Color- Unless otherwise specified, webbing shall	(2) Weave: Webbing shall be of	Intended Use- In the manufacture of life preservers and other

material shall be added to the webbing.

specified, webbing shall be dyed Orange-Yellow conforming to shade No. 33538 of Fed. Std. 595 or Deck gray conforming to dry standard color chip of MIL-P-699 (1-3). Colorfastness-Standard sample available (5651-5660-5610).

Weave: Webbing shall be of tubular construction, with a 1-up and 1-down weave, with the exception of the binder ends, which shall be evenly spaced across the width of the webbing and shall be woven plain, 2 ends weaving as 1.

equipment.

NOMENCLATURE	Yara Yambar	Fiber	Weight	Width	Worp	Yarns - Full Width	Picks Per Inch	Breaking Strength Lb. Min.	tion % Mex.	Thick- ness inch	
Tape, Mylon; Elastic; Or,-Inch HILA-1,644 (MC	Herp Fill Stu	ffer	Min Max		Total	Face Binder Stuffe B Back	X	(5100)	(5100)	(5030)	
		200/34 or 210/34 den. nylon & 37 gauge extru- ded natural rounded rubb		(+ 1/16) (~ 1/32)	65	Rubber 32 min.	69 <u>+</u> 5		601) 130		

Webbing, Textile: Enitted, Mylon; Elastic 4-1/4 Inch-Width MIL-W-17965A (MC)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Mot Specification Requirements)
MIL-T-17964A		Color- Unless otherwise specified, color shall be Olive Drab No. 7. Colorfastness- "good" (5651-5622-5660-5682).	(2) Tape shall be made on a carrier braider. Ends per carrier: 2 min. Weave: 2/2.	Intended Use- For use on Marine Corps clothing and equipage items.
MIL-W-17965A	٠	Color- Unless otherwise specified, color shall be Olive Drab No. 7. Colorfastness- "good" (5651-5622-5660-5682).	(2) Total sewing sections (warp): 6 min. No. of ends per sewing section: 6 min. Knitted web- bing shall have a transverse web of interlocking and inter- connecting warp and filling yarns with a selvage at each edge. Laid-in elastic warps shall consist of a rubber core wrapped first with 2- ply, 70 denier nylon, and then wrapped with single ply, 200 denier nylon.	Intended Use- On Marine Corps clothing and equipage items.

NOMENCLATURE	Yorn Number	Fiber	Weight	Width Inch	Warp Yarns -Full Width	Pic s Per Inch	Breaking Strength Lb. Min.	Elonge- tion % Mox.	Thick- need Inch	
			02/ <b>yd</b>				(5100)	(5100)	(5030)	
Cloth, Glass; Tape, Textile, Glass; and Thread, Glass Hil-C-20079C, An (See also under Synthetic Cloths	d. 1	ffer	Min Max		Total Face Sinder Stuff Back	er			7	1
Type I- Cloth (See Pynthetic Cloths)	•									
Type II- Tape Class 1- Flain weave, untreate	d	Continuous filament fibrous glass	(+10%) (untreated) 5.80	(1)	42 <u>+</u> 2	3 <del>2+</del> 2	(5104) 150 (initial) 40 after heats			
Class 2- Plain weave, treated			5.80 (untreated) 7.05 (treated)	(1)	4 <u>2</u> 4?	(¢ 35∓5	150 (initial) 40 after beati			
Class 3- Knitte untreated	đ,		11.25	(1)	10±2	55 <del>-</del> 5	15 (initial) 9 after boats			
Type III- Thread Class 1- Medium weight sewing			(yards/15) 640				48			
Class 2- Heavy weight sewing			350				75			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ende/ Carrier, etc.)	NOTES (Not Specification Requirements)
HIL-C-20079C Type I Type II Class 1 Class 2 Class 3 Type III Class 1 Class 2	Unless otherwise specified, Class 2 taps shall be treated with a suitable synthetic resin.		Weave: Class 1 and Class 2 tape shall be plain woven. Ends shall be properly inter- locked with picks to insure that there shall be no ravel- ling of tape edges. Class 3 tape shall be knitted. Wales shall be properly interlocked with courses to insure that there shall be no ravelling of tape edges. Construction of tape shall be no distortion of the tape such as curling.	Intended Use- As a lagging material or jacket over thermal insulation.

REPORT A							K						
NOMENCLATURE	York Number	Fiber	Weight os/lin yd	Width	Worp	Yarns -	-Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elonga- tion % Max. (5100)	Thirk- nest inch (5030)	Ply	
Mobbing, Textile, Wico-Insuntic Afe Preserver MIL-W-21733 (AR		luffer	Min Max	ye ye	Total	Face a Bock	Binder Stuff	er	7			W	F
Type I- Harness webbing	310/4 S10/4	Bright, high ten-	- 1.07	1-1/2 ( <u>+</u> 1/15)	178	144	34	48	1800				
Type II- Acc- essory webbing	210/2 210/4	acity, 210 den. mylon. Melting Point: 250+6°C.	- 0.40	1 ( <u>+</u> 1/32)	100	100		40	575				
cebbing, Rylun, Slotted (For Carr Shipe) MIL-V-23223 (Se			a	( <u>+</u> 1/16)									
Type I		840 denier ultra-vio- let resis- tant, high	2.3 -	1-3/4	280			24 <u>+</u> 1	6000 (initial) 90% fter abresi		0.080-0.110	2	2
Type II		tenacity continuous filement nylon.	1.7 -	1-1/4	200			2 <u>4+</u> 1 (a	4500 (initial) 90% fter abrasi		0.080-0.110	2	2
Type III		1.47	1.28 -	1	160			24 <u>+</u> 1	3500 (initial) 90% after abras		0.075-0.100	2	2

Class A- Anti-static treated. Class D- Standard

HOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-2.733 Type 1 Type II		Color- Unless otherwise specified, color shall be Orsige Yellow to match TCA Cable No. 70068, Spanish Yellow (crepe side). Colorfastness- "good" (5660).	Weave- Type I: A double plain weave, 1 end as 1 with a single filling. Binders shall be drawn to weave in groups of 2. See spec. for instructions. Type II: 2-up and 2-down herringbone twill with 1 reversal in center.	•

MIL-W-23223 Type I Type II Type III Class A Class B

Unless otherwise specified, webbing shall be impregnated webbing shall be impregnated with a suitable polychloro-prene compound containing the necessary curatives, pig-ments, acid acceptors, flame-proofing compounds, and anti-oxidants. A deposit of not less than 3% solids shall be made. If anti-static webbing is required, conductive rubis required, conductive rubber latex impregnation shall be used in lieu of polychloro-prene. Anti-static treatment shall increase weight of webbing by 7-14%. Yarn shall be substantially from 5 mm. be substantially free from sizing, leading, or other adulterants.

dyes. Olive Drab color dves are not required in anti-static treated. Metallized or chrome dyes shall not be used. Colorfaciness- "fair" (5600-5614).

Color-Webbing (excluding markers, web insertions, and anti-static treated webbing) shall be clive Drab. The antistatic treated webbing shall result in a characteristic treated webbing shall result in a characteristic treated webbing shall not stiffen at low temps (4.5.2). See spec. shall result in a charcoal color from the for weight of polypropylene
treatment with conductive rubber to be used. Use of
rubber latex so that it
is readily identifiable. chemical or finishing agents
Yarn shall be yarn or
piece dyed with acetate
tion in storage, cause dermatitis on prolonged skin contact, or increase the flammability of the webbing is prohibited.

Intended Use- In fabrication of cargo slings.

NOMENCLATURE You Num	ber	0z/1	olght a	Width	Worp Verns -Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elonga- tion % Mox. (5100)	Thick- nees inch (5030)	Pl	
Webbing, Textile, Worp Fill Decron MIL-W-25339 (UBAF)	Stuffer	Mi	Mex	(4)	Total Face Binder Stuffe Back					V	7
Types: I	220 denier	-	1.30	1-23/32	108	18	1800		.otoo50	7	9
II	continuous filement	-	1.80	1	120	20	3000		.110140	10	10
m	high ten- acity type	-	3.75	1-23/32	320	20	8700		.125145	10	9
IA	5100 dacron	-	4.35	2	346	18	9700		.110130	10	10

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
NII-W-25339 Type I Type II Type III Type IV	(5) Finished webbing shall be heat relaxed at a temp. in excess of 350°F. in such a manner that no more than 2≸ shrinkage occurs in testing. (4.3.2.1). pH: 5.0 - 9.0 (2811).			

HOMENCLATURE Years	Fiber	Weight	Width	Worp Yerns - Full Width	Picts Per Inch	Breaking Strength Lb. Min.		Thick- ness Inch		Ply	
						(5100)	(5100)	(5030)			
obbing, Textile Worp Fill	Stuffer	Min Mex		Total   Face   Binder   Stuff	er				W	F	В
NUL-W-25361A			(4)	Seck							
Type I- Untreated	Warp & fill for V & VI 1100 den.	- 1.65	1-23/32	154	19	3600 (	18 (2500 lb)	.050065	2	•	3
Type II- Untreated	semi-dull or bright high ten- acity poly- ester -	- 2.10	1-23/32	216	23	·	13 (3000 1b) 17.5 (5400 1b)	.060080	2	-	3
Type III- Untreated	polyethylene glycol tere- phthalate. Helting point: 250°+6°C. Fill		1-23/32	256	23		12 (3000 16) 17.5 (6300 16)	.075~.090	2	٠	3
Type IV- Untreated	for I, II, III and IV: spun nylon 15/3+3% on the cotton system.		3	346	32	·	12 (3000 1b) 18.5 (7830 1b)	.065090	2	•	3
Type V- Latex treated	-y	- 3.90	1-3/4	362		10000 (iritial)( 9000 abrasion)( 95% cc. aging)	(3000 15) 16	.110130	2	-	2
Type VI- Latex Treated		- 7.50	1-3/-	449 37		15000 (init;al)( 13500 abrasion)( 95% cc. aging)	(3000 lb) 17.5	.215235	3	2	2

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-W-25361A Type I Type II Type III Type IV Type V Type V	Types I, II, III and IV webbing shall be untreated. Types V & VI shall be treated with a natural rubber latex. They shall be impregnated with a natural rubber latex containing the necessary curatives and antioxidants. Webbing shall be saturated by total immersion in a latex bath for a period of time sufficient to allow penetration to the core, and the excess shall then be removed to permit conformance to finished weight requirements. Webbing shall then be dried and vulcanized. ph: 5.0 - 8.5 (2811).	white or shall match	shall show no evidence of stickiness or gumminess after scc. aging (5850). Types V & VI shall show a change in pliability of no more than +20% after low temps, and a further change of no more than +20% after acc. aging.	Intended Use- In aircraft safet belts and restraining harnesses Type VI webbing is intended for use as slings for heavy rockets and rocket warheads.

### **NARROW FABRICS**

NOMENCLATURE	Yarn Number	Fiber	Weight	Width inch	Worp	Wess-Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elonge- tion % Mox. (5100)	Thick- ness inch	Pl	,
	Varp Fill Stu	iffer	Min Max -		Total	Face Binder Stuffe	r				٧	Ţ
MILT-26089 (USAI		210 denier bright 34 filament high tenacity polysmide of hexamethylene & adipic acid or its derivatives. Melting point: 482°+10°F.	- 67 (yd/1b)	5/16 (tape & cord) 7/16 (tape & loop)	76	8 & Bock 38 & 37	60	(4102) 175		0.030- 0.040 exclusive of cord)	1	3
Tape, Textile, Mylon, For Ring- Slot Parachutes MIL-T-27736 (USA)		840 denier 140 filament ultraviolet resistant nylon poly- amide of hexamethy- lene diamine & adiric acid or its derivatives. Melting poin 250°-6° C.	`yd)	11 ( <u>+</u> 1/4)	48		36	(510k) 625 (varp) 450 (fill)				

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
міг-т-26089	(5) pH: 5 - 9 (2811).	Color - Tape shall match Air Force Sage Green shade No. 520 (3). Colorfastness - "good" (5651-5614-5660-5682).	Loop cord shall be manufactured in such a manner that the core yarns are held firmly in place to prevent puckering of core yarns when released from stress See spec. for sleeve, core, and cord requirements. Weave; see spec. for diagram.	clothing as a lacing tape.

MIL-T-27736

Finished tape shall be smooth and even, and shall contain only.

Selvage width: 1-1/8 ± 1/16 in. Breaking strength (warp) of selvage width: 1-1/8 ± 1/16 in. Breaking strength (warp) of selvage width: 900 lb. Air permeability: 70 ± 20 ft³/min/ft² of cloth body.

10%, and cloth shall not shrink more than 5% in varp and fill (4.3.2.1).

PH: 4.5 - 8.5 (2811).

Intended Use- In the fabrication of ring-slot parachutes. Existing narrow fabric looms may be used to weave the tape by folding over a 5-1/2 in. width on the loom that will unfold to an 11 in. finished tape off the loom. loom.

# **NARROW FABRICS**

NOMENCLATURE	Yorn Number	Fiber	Wei	ght	Width	Wor	y Yarns – Full Width	Picks Per Inch	Breaking Strength Lb. Min. (5100)	Elongo- tion % Max.	Thick- ness Inch (5030)	Pl	y
Tupe, Textile, W. Rylon, Aromatic, Mormelting, Parachu	torp Fill Sh	iffer	Min	Max		Total	ol Face Binder Stuf & Back	fer	(31007	(3100)	130301	W	P
HIL-T-38377 (USA)	)		(Yd	s/Lb)	(±0.0625)		Selvage						
Type I		Hormelting aromatic polyamide. Ho carbon- ization te-	100	-	2	258	32	70	300 (initial) 85% (aged)	12		1	1
Type II		low 800°F; Type I: 100 denier. Types II & III: 200	30	•	2	450	-	36	1000 (initial) 85% (aged)	12		1	2
Type III		denier.	12	•	2	320	•	26	3000 (initial) 85% (aged)	•		4	4
Braid, Textile, Cord-Edge, Polyeste Fiber MTL-B-40092A	<u>.</u>	(a) 60/4 or 30/2 Cotton & multifila- ment polyester conforming to Type I, Class 1 of V-T-285.	(gro 20		8) 3/52-1/8 (cover) 3/16-1/4 lat braid)		No. of Carriers  19 min. (cover) 21-25 (flat braid) (	25 (cover) 25 flat braid	1)		(cove	ı. B er)	

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-38377 Type I Type II Type II		Color- Shall be natural.	Weave- Body weave: A conventional 2-up and 2-down right-hand twill. Solvage: Type I shall be a double plain wrave of a conventional hatban' type. Types II and III shall have no additional selvage ends. Type I: Air permeability shall be 75±20 ft ³ /min/ft ² .	Intended Use- For use in the fabrication of parachute canopies of tape-type construction known as ribbon parachutes.
MIL-B-40092A		Color- (1-6). Standard samples available (3). Colorfastness- Standard sample available (4614-4680-4660-5651).	(2) (a)Cover: 70 denier, 3 ply (letter size A). Core: 220 denier, 3 ply, plied 3 times (number size 3). Flat braid and core sections shall be braided together in 1 opera- tion on a cord-edge braider. Cord section shall consist of a cover braided around a core of stuffer yarns. Flat section shall be reinforced with cotton yarns.	Intended Use- As piping on clothing.

# NARROW FARRICS

NOMENCLATURE	Yara Number	Fiber	W	eight	Width	Warp '	Verne -	Full X53	Picks Per Inch	Breaking Strength Lb. Min.		Thick- kers such		Ply	
								Pl.		(5100)	(5100)	(5030)			
Braid, Textile,	Warp Fill Sh	effer	M	n Max		Total	7000	Sinder Si	luffer				W	7	8
For Cap Covers MIL-B-41003		Mercerized Cotton (	70 02/g	ross yd)	)-3/4 min.	40/6	Bect:		26	200					
Webbing, Textile, Nylon															
MIL-W-43042 (ORI	<b>o)</b>	,	on /1	in yd)											
Type I- 0.065 in	1.	Continuous	02/1	in ya)											
nominal thickness		filament			_										
Sizes:		bright high	-	0.40	1/2 3/4		49 73 97	5 8 11	24 24	550		0.050-	4	8 8 8	4
		tenacity	-	0.60			73	8	24 24	800	(	0.079	à la	8	h.
		nylon poly-	-	0.80	1		91	11	24	1100		-	4	ъ	4
Type II- 0.090		amide of hexamethy-													
nominal thickness		lene diamine													
Sizes:	•	& adipic aci		1.20	3/4		109	13	24	2500		0.080-	8	8	3
		or its deri-		1.25	7/8		127		54	3000		0.100	8	8	3
		vatives.	-	1.30	1		127 143	17	24	3400		*	3	8	3
		Melting	-	2.00	1-1/2		213 287	26	24	5000		**	8	8	3
		point: 2500+		2.80	2		287	15 17 26 35 44	24	6730			8898888	8888888	3
		6°C. 210 den		3.20	2-1/2		359		24	8200			-8	8	3
		34 filement	-	3.90	.3		431	53	24	10000		**	8	8	3

NOMENCLATURE	FINISH	SHADE AND COLORFAST NESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MII_B-41803		Color (1). Standard sample available (3). For white, cotton shall be bleached. Colorfastness- standard sample available (4614- 4600-4622-4660).		Intended Use- As a component of cap cowers used by military personnel.
MIL-W-M30M2 Type I Type II	(5) pH: 5 - 9 (2811).	tate or acid type dyes of color Olive Drab No.	Weave: Webbing shall be com- poned of 2 ground warps (face and back), 1 binder warp, and 1 filling. Face warp shall weave plain (1 end as 1), with picks that show on face,	Intended Use- For manufacturing carrying straps for fire control instruments.

### NARROW FABRICS

NOMENCLATURE	Yorn Number	Fiber	Weight	Width	Wors	Yerns	-Full Width	Picks Per Inch	Breaking Strength Lb. Min.		Thick- ness Inch	1	'ly
									(5100)	(5100)	(5030)		
Tape, Textile, Polyamide, High Temperature	erp Fiil St	uffer	Min Mex		Tota	Face B Back	Binder Stuf	for				W	F
Resistant, Loop MII_T-Blli6 (WEPS	金 雷	High strength aromatic poly- emide, hon- melting, 200 denier.	- 67 (yds/ lb)	5/16 (tape & cord) 7/16 (tape & cord loop)	,	38 (face) 37 (back)	Cord 1	60	(4102) 375			1	3

Webbing, Cotton,
1.2 Os., 5leeched
2 Inch (USAN)

F/Dec 295
(Supermeding
MIL-W-16k3) 16/3 16/3/4 - Cotton 1.2 - 2 192 22 400

P/Des 295

(5)

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Weave, Ends/ Carrier, etc.)	NOTES (Not Specification Requirements)
MIL-T-81116	(	Color- Shall be Olive Green, Color shall be obtained by the utiliza- tion of solution dyeing.	Loop cord shall be constructed in such a manner and with such a yarn tension that core yarns are held firmly in place to prevent puckering of core yarns when released from stress. Weave- Sec spec. for diagram. See spec. for require- ments for sleeve, core, and cord.	2A, and related clothing.

Color- Fully bleached See spec. for weave instructions.
with fluorescent optical brighteners.

Intended Use- In the manufacture of equipage.

#### A SA SECTION

#### MARROW PARTICE

### Textile Test Methods - CCC-T-191b

Method	<u>Title</u>
	Chemical
2611 2610	Acidity (pH), colorimetric method. Acidity (pH), potenticmetric method.
	Construction
5030	Thickness of cloth.
	Mechanical
\$100 5100 5104 5202 5206	Strength and elongation, breaking; small cords, single strand.  Strength and elongation, breaking, of woven cloth, grab method.  Strength and elongation, breaking, of woven cloth, ravel strip method.  Stiffness, directional; cantilever bending method (Tinius Olsen).  Stiffness, drape and flex; cantilever bending method (Pierce formula).
	Air Permeability and Water Resistance
4500 5500	Water absorption; seving thread; dynamic method. Water resistance, dynamic absorption.
	Shrinkage Resistance
5550 5558	Shrinkage in laundering; cotton, linen, and mixed cotton and linen cloth. Shrinkage, relaxation; wool cloth.
	Colorfastness
4600 4610 4611 4622 4630 4660 5600 5600 5622 5630 5622 5651 5660 5660 5660 5662	Colorfastness to chlorine blasching; cotton yarn, thread and cordage; Launder-Ometer Method. Colorfastness to laundering; wool, silk and rayon yarn, thread and cordage; Launder-Ometer Method. Colorfastness to wet cleaning (associated with dry cleaning); yarn, thread, cordage. Colorfastness to water; yarn, thread, cordage. Colorfastness to light; yarn, thread, cordage; accelerated method (Fade-Ometer). Colorfastness to perspiration; yarn, thread, cordage; perspirometer method. Chlorine bleaching; cloth. Laundering, cotton and/or linen; Launder-Ometer. Dry cleaning (petroleum solvent). Wet cleaning (with dry cleaning). Water, cold. Salt water and soap. Crocking of cloth. Light; accelerated (Fade-Ometer). Light; natural light method. Weather; accelerated method (National Weathering Unit). Porspiration; perspirometer method. Mildev Resistance
5762	Mildew resistance; scil burial method.
•	Deterioration Test

Aging; accelerated oven method.

5850

NOMENCLATURE	Weight Oz/Sy Wi	Weave	Width	Yorn Ply	in in	ch In.	Breaking Strength Lb. Min.	Air Permec- bility (5450)	Shrink- ope Max. (5550)	Dynamic Absorption Max. (5500)	Hydro- static Pressurs Low Range Min.	Water Permea- bility Max. (5516)	Point Value Max.
Cloth, Thread, and	Min Max		<u> </u>	WF	W		WF	104301	WF	100001		100107	
Tape; Asbestos	•			•			•		-				
SS-C-466e (See also under													
Marrow Fabrics)													
Form I- Cloth													
Grade U.G 80%													
asbestos, blue	( and )				(+1)							9	
stripe Style 1- plain	( <u>+</u> 7\$)				(71)								
weave, reg. wgt.	2.25 lb.	Plain	(1)		18	9	90 40						
Style 2- p ain		53-4-	(2)		10 1	^	80 4C						
weave, lt. wgt. Style 3- plain	1.40 lb.	Plain	(2)		19 1	Ŋ	00 4C						
vaave, special vgt	. 0.75 lb.	Plain	(1)		21 1	7	¹ / ₄ C 30						
No. 1 construction	•												
Style 4- plain weave, special wgt	. 1.05 lb.	Plain	(1)		20 1	5	65 40						
No. 2 construction		-	,-,			•							
Etyle 5- plain weave, combination													
asbestos & glass,													
(asbestos yarn &													
glass filament yarn plied togethe	-\ 1 10 15	Dlada	(1)		13	,	90 70						
No. 3 construction		PLAIN	(1)		13	,	20 10						
Style 6- plain													
weave, combination asbestos & glass,													
(asbestos warn &													
glass filement													
yarn plied togethe No. 4 construction		Plain	(1)		18	9	90 40						
(Continued)	•												

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Tearing Strength, etc.)	NOTES (Not Specification Requirements)
SS-C-466e Form I Style 1 Style 2 Style 3 Style 4 Style 5 Style 6 (Continued)	Cloth may be finished to provide qualities and characteristics such as lint free, brushed, and filled, calendered, napped, dry-woven, or wet woven, providing tensile and construction qualities are maintained as specified.	•	Asbestos cloth, thread, and tape shall be made of good-quality enrysotile asbestos and organic fiber. Rygroscopic moisture shall not exceed 5% (4.4.1.1). Cloth shall be woven with single or plied yarns. Grade U.G. cloth shall contain no less than 80% asbestos. A blue marker thread shall be woven into each selvage.	the insulated surface is more than 125°F (52°C), except that it is not to be used on fittings and flanges, nor where it will be in contact with heated

1 4 M. M.

NOMENCLATURE	Weight Oz/Sq Wi	Wave	Width	Yorn Ply	in M	orne for ich lin.	Brec Stre Lb.	ngth	Air Permea- bility (5450)	Shrink- oge Max. (5550)		Hydro- static Pressure Low Range Min.	Water Permea- bility Max. (5516)	Point Value Max.
Cloth, Thread, and Tope; Monetce ba-Calle (Cont'd)	Min Mex	*	*	WF		F	w	F		WF				
Grede AA- 90% asbestos, red stripe Stylo 1- plain weave, reg. wgt.	(+7\$) 2.25 lb.	Plain	(1)		(+1) 18	9	1.00	40						
Grade AAA- 99% asbestos, green stripe Style 1- plain			(1)		18									
Style 2- plain weave, it. wgt.	2.25 lb. 1.40 lb.		(1)		_	9 10	125 80	50 40						
Grade AAA-M- 95% asbestoe, plain weave, wire insertion, no stripe Style 7- nominal Style 8- "	per sq. yd. 2.60 lb. 2.75 lb.		(1) (1)		18 18	9			Diameter (+.001") 006 .008	- S	Wire composition oft anneals ickel-copp	er alloy	No. c	of strand
Style 9- " (Continued)	3.50 lb.	Plain	(1)		18	9			.008	Ň	58% nickel ickel-copp 58% nickel	r alloy		2

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Tearing Strength, etc.)	NOTES (Not Specification Requirements)
SS-C-466e Grade AA Style 1 Grade AAA Style 1	For additional information see p.	287.	Grade AA- cloth shall contain not less than 90% astestos. A red marker thread shall be woven in each selvage. Grade AAA- cloth shall contain not	

Style 2 Grade AAA-M Style 7 Style 8 Style 9 (Con.inued)

woven in each selvage. Grade

AAA- cloth shall contain not less than 95% asbestos. A green marker thread shall be woven in each selvage. Grade

AAA-M- cloth shall contain not less than 95% asbestos exclusive of wire insertion. It shall be plain woven.

Shall be plain woven.

Here of the insulated nurture of the insulated surface on removable & replaceable covers for flanges & fittings where the temperature of the insulated surface is more than 500°F. Form I, Grade AAA cloth is intended for use as the insulated surface is more than 500°F. Form I, Grade AAA-M cloth is intended for use as the inside surface on removable & replaceable flanges & fittings, or for the wrapping of engine exhaust pipes where the temperature of metal in contact shall be over 500° but not exceeding 1000°F.

NOMENCLATURZ	Weight Oz/Sq Vd	Weave	Width	Yorn Ply	Yorns Per Inch Min. (5050)	Breaking Strength Lb. Min. (5100)	Air Pormos- bility (5450)	Shrink- age Max. (5550)	Dynamic Absorption Max. (5500)		Weter Permoc- bility Mex. (5516)	Point Value Max.
Cloth, Thread, and Tape; Asbestos SS-C-456e (Cont'd)	Min Mex			WF	WF	WF		WF		8		

Form II- Thread, sewing, reinforced with wire

(4.4.2.1)

Form III- Thread, sewing, without wire

450 yds/ lb. min.

Form IV- Tape (See Narrow Fabrics)

NOMENCLATURE FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Tearing Strength, etc.)	NOTES (Not Specification Requirements)
---------------------	----------------------------	----------------------------------------------------------------	----------------------------------------

SS-C-466e (Cont'd) For additional information see p. 287.
Form II
Form IV

Form II, thread, sewing, reinforced with wire- strends shall be composed of 3 nickel-copper wires, each of which shall have asbestos yarn spun around it, twisted together to definitely interlock the asbestos and wire. Each yarn shall be 10-cut and shall contain not less than 58% nickel and shall be 0.008 +0.001 in. in diameter. Form III, thread, sewing, without wire- thread shall be made from yarn not heavier than 10-cut, 2-ply, and shall contain not less than 75% asbestos. One pound of thread shall provide not less than 450 yards.

The state of

NOMENCLATURE	Weight Oz/Sq W	Wedve	Width Inch	Yorn Ply	Yorns Per inch Min.	Breaking Strength Lb. Min.	Air Permec- bility	Shrink- oge Max.		Hydro- static Pressure Low Range Min,		Point Value Max.
Cloth, Burlap, Jute (Or Kennar)	Min Mex	<u> </u>	<b>L</b> -l	WF	(5050) W F	(5100) W F	(5450)	(5550) W F	(5500)		(3516)	
CCC-C-46T6	(+5% tol.)	k'										
Class 1- 7.5 oc. Class 2- 5.0 oc. Class 3-10.0 oc. Class 4-12.0 oc.	6.7 7.2 9.0 16.8	Plain, modified plain, or 3-leaf twill.	uin. inc. of selves		8-11 8-1 9-12 8-1 11-13 10-1 11-13 11-1	1 2						

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS (Such as Thickness, Tearing Strength, etc.)	NOTES (Not Specification Requirements)
CCC-C-467b Class 1 Class 2 Class 3 Class 4			Cloth shall be made of jute or kenaf, or any combination thereof, at the option of the supplier. Selvages shall be firm and straight, and may contain cotton yarn.	Intended Use-Burlap cloth is intended for use in equipage, covering of beled material, camouflage materials, sand bags, and overwrapping of textile products when packed for delivery. Jute is defined as the bast fiber obtained from various species of Corchorus. Kenaf is define as the bast fiber obtained from Hibiscus Cannabinus.

#### GENERAL HOTES

#### NON-WOVEN TEXTILE MATERIALS

The following parenthetical numbers are utilized throughout this section of the text as referenced notes. Upon observing these numbers, refer to this page for further information dealing with specific portions of the item.

As specified.
Preproduction sample.
Colorantching.
See specification for instructions on construction.
Monfibrous and extractable matter.

(6) Pre-eward sample and laboratory report.
(7) Bid sample and laboratory report.
(8) See specification for weave diagram and/or instructions.
(9) Sulfur dyed.

The specific test methods referenced in this section of the text are listed with their titles at the end of the section.

NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width Inch	Breeking Strength Min.	Tensile Strength Min.	Splitting Resistance	Thickness Inch	Water Absorption
				(5100)	(5100)			
Reg. Wiping, Cotton		Min Mex	-	LW				
Class 1- Unused	Howen or knitted cot-	(e)						
fabrics.	ton fabrics. Class 1	_						
Ornde A- White only		2.0 6.0						Water &
Grede B	clean mill ends, mill	0.0.22.0	for re-					oil shall
CITTON D	rements, or both. Eags shall be soft	5.0 75.0	quire-					be absorbed
Class 2- Reclaimed	and absorbent, free		ments of area.					into cloths
fabrics.	from dust and abra-		or area.					within 30
Grade A- White only		2.0 6.0	•					sec. (4.3.3).
Grade B	fabrics reclaimed principally from household articles, none of which has been used for wiging reg purposes, and shall be soft and absorbent. Both Classes: Heavily mapped fabrics, mesh fabrics, fabrics over with hard twisted yarn, & starchod or stiffened fabrics are not acceptable. U.S. Flags or Flags of other Mations, or remnants thereof are strictly prohibited.	2.0 12.0						

NOMENCLATURE	Finish	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
DD-R-30b Clars 1 Grade A Crade B Class 2 Grade A Grade B			(a)At least 35% of the weight in each inspection lot of Grade B fabrics shall consist of wiping rags veighing between 2.0-5.0 oz/sq yd. Class 2 wiping rags shall be thoroughly washed, rinsed, and sterilized. This processing shall be done within the United States, its possession or Puerto Rico. All Classes and Grades of wiping rags shall have a moisture content of no greater than 10% (4.3.3.2).	and for miscellaneous cleaning.

NOMENCLATURE	Fiber	Weig Oz/Sq		Width	Brea Stree Mi	ngth n.	Tensile Strength Min.	Splitting Resistant		Water Absorption	Bursting Strength Min. Lb. (dry)
		Mia	May		L (5)	00)	(5100)	<u> </u>			
Cloth, Cleaning, Romvoven Fabric CCC-C-46a (GL) And. 1		and I	MUL	We Direc	aker	Comb. Total Ave., Both	Tear Strength min. (dry)	Stiffer	In. Lb.		
Type I- Untreated Class 1- Lt. duty Class 2- Med. duty Class 4- Extra	Fibers & yarns shall be of vegetable, animal or synthetic origin, & the fibers or combina-		2.40 1.94	(1) (1)	:	-	•	:	•	(water) 350% min. by weight	12 17
heavy duty	tion of fibers & yarns shall be in a planar assembly held together by a binder. When yarns	3.50	4.00	(1)	14 (dry 7 (wei	15	0.4	0.012	0.0085	2 sec. max. (oil) 275% sin. by weight Classes 1 &	•
Class 5- Med. extra hvy. duty	are used, they shall be no more than 2" long. Binder shall be odorless & stable. Use of water- soluble plasticizer materials in Type I		2.25	(1)	7 (dr) 3 (vet	6	0.4	0.006	0.002	2: 30 sec m Classes 4 & 5: 8 sec.	
Type II- 011 treated Class 5- Med, extra hvy. duty	saterials in type I cloth shall not exceed 5% by weight.	2,00	2.76	(1)	3 (d:	6 -3 <b>y</b> )	0.4	o <b>.00</b> 3	0.001	-	Elongation 40% min (dry) weaker

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specifica Requirements
CCC-C-46a Type I Class 1 Class 2 Class 4 Class 5 Type II Class 5	Oil used for treating Type II, Class 5 cloth shall be a standard grade mineral-oil emulsion with an unobjectionable odor, having a non-tendency to sour or mildew after impregnation of the cloth. It shall be of a viscosity suitable for impregnating nonwoven cloth for polishing and cleaning purposes without harmful effects to the surfaces to which it is applied. Oil shall be nontoxic. Shall constitute 12-17\$ by weight. The bonded finished of Type I cloth shall be free from blocking (h.4), and shall not become brittle. Type II shall have a soft hand.	Colorfastness- When a dyed color is specified, cloth shall show "fair" fastness (5651-5630).	(2) Cloth shall be in the form of 2the out size-sheets or full- midth rolls or bolts as speci- fied. Finished cloth shall be essentially lintless when used in wet or dry condition. Class I cloth shall not be seriously affected by arbon tetrachlo- ride, turpentine, and stoddard solvent (5508). Type I, Classes 4 & 5 shall not lose more than 2% in weight by extraction when immersed in a hydrocarbon fuel, and the cloths shall show no tackiness, appreciable stiffness, surface gelling, or other tactually observable effect (4.4.2). Cloths shall be free from objectionable odor. Type II Class 5: The max. confidence limit (arithmetic mean), dirt pick-up efficiency shall average not less than 21% based on weight of cloth before soiling (4.4.3). Type I, Class 4: When specified by procurement officer, cloth shall be prevashed to remove any existing impregnated detergent, and the procurement officer shall state the percentage of allowable residual soluble materials acceptable.	Intended Use-Typ 1: for dusting, vi washing, and poli Type I, Class 2: markers. Type I, h aid 5: for use trial type wiping tions. Type II, C for dusting and f wiping operations are not intended where high-abrasi ities of cloth ar Type I, Class 5 c be used to produc Type II cloth.

ification ents) Type I, Class
ng,wiping,
polishing.
s 2; for survey
s I, Classes
use in induslping operaII, Class 5;
and floor
cions. Cloths
nded for use
orasive qualth are required.
s 5 cloth may
roduce Class 5,
h.

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NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	
Pad, Ironing Board, Cotton DDD-P-55a	Cotton, Card sliver shall be used to form the base material.	Min   Max 16.0 -	15½ (head) ½; (taper)	L W (4104) 200 (ave.) 190 (ind. test)					

Padding, Cotton, Stitched Rowing CCC-P-86c

Type I-  $\frac{1}{4}$  in. 1b. (min.) thick (com.) Cotton 1.0 -  $\frac{54}{90}$  or

Type II- 5/8 in. 1b. 1b. thick (com.) Cotton 2.0 2.5 74

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
DDD-P-55a			(4)	

Strands per inch, card sliver: 5 min. Rows per inch, warpwise stitching: 3 min.

CCC-P-86c Type I Type II

(4)

Intended Use- Primarily for use on flatwork ironers and pressing machines.

NOMENCLATURE	Fiber	Walght Oz/Sq Yd	Width	Breaking Strength Min. (5100)	Tenelle Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	
Waste, Matted, Yarns, (Cotton, Colored) 100-W-101b	Cotton yarns or a mix-	Min Max	<u>'</u>	L W				Water & oil	1

Cotton yarns or a mixture of cotton and rayon yarns. 204-5% of the yarns shall be min. 20 in. long, & not more than 5% shall be less than 3 in. 40% max. shall be fine undyed soft spun yarns. 204-2% shall be slasher yarns. 40% max. shall be fine dyed soft spun yarns. 204-2% of nonbright spun-rayon yarns may be used in lieu of same quantity of cotton by weight. Yarns shall be free from excessive lint and hard-twisted string, shredded rag, premachined stock, crepe yarn, lustrous rayon, yarns of more than 3-ply, dark colored yarns, fly sweepings, and dirt or other foreign matter.

Water & oil shall be abscreed within 30 sec.

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
DDC-4-101P	(5) Waste shall be machined twice to produce a uniformly mixed product with regard to color and length of yarns. White and colored waste shall be properly floor mixed by spreading each bale of stock material on a laying pile in successive layers, so that a portion cut from the edge c. the pile to put through the machines will have its proper proportion of every bale of stock material used in the manufacture of the waste. All spools, needles, metal clips, etc. shall be removed. There content: 6.5%. Moisture content: 6.5%.			Intended Use- In wiping an and packing in journals.

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NOMENCLATURE	Fiber		ight iq Yd	Width Inch	Brea Stree Mi	ngth	Tensile Strength Min.	Splitting Resistance	Thickness Inch	Water Absorption	
7					(51		(5100)			<u> </u>	
Felt Sheet (Hair) and Felt Roll (Hair)		Min	Mox		L	W					
C-7-202c									(nominal)		
Type I- Platen or needle loom pro- cess, without backing.	Washed cattle hair. Felt shall contain no less than 95% cattle hair, except for the cloth reinforcement material for Types II, III, and V.	16 23 29 50 70 90 112 135 156 180	22 31 41 62 88 120 148 177 204 234						1/8 3/16 1/4 1/2 3/4 1 1-1/4 1-1/2 1-3/4 2		
Type II- Punched or needle loom processes, with tobacco cloth center reinforce- ment.		16 23 29 50 70 90 112 135 156 180	22 31 41 62 88 120 148 177 204 234						1/8 3/16 1/4 1/2 3/4 1 1-1/4 1-1/2 1-3/4 2		
Type III- Punched or needle loom processes, with tobacco cloth center reinforcement (treak ing strength require ment)  (Continued)	<b>;-</b>	18 25 31 52 72 92 114 137 158 182	33 42 64 90 124 150 179 206 236		30 30 30 30 30 30 30 30 30	30 30 30 30 30 30 30 30 30			1/8 3/16 1/4 1/2 5/4 1 1-1/4 1-1/2 1-3/4		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-202c Type I	When specified, felt shall be mildew resistant treated in	Color- Unless otherwise specified, felt shall be	(2-4). When specified, Types I, II,	Intended Use- Type I: For insulation where the temp
Type II	accordance with MIL-T-2312.	natural. The color result-	- III. and V felt shall show an	erature will not be higher

Type III (Continued)

Requirements for organic nequirements for organic acidity, alkalinity, and mineral acidity shall not apply to mildew resistant treated. ing from the cattle hair used shall be acceptable.

III, and V felt shall show an organic acidity of not greater than 0.2% (4.4.2). When specified, Types I, II, III, and V felt shall have a pH of 7.0 ± 1.0 (2811). Type IV: Shall show no sign of cracking. This requirement shall not apply to 1/8 thick (4.4.3). Class 1 felt shall show an organic acidity not exceeding 0.2%. Class 2 show a pH of 7.0 ± 1.0.

erature will not be higher than 120°F. For cushion-ing, packing, padding, & crating where breaking strength is not important. Type II: For use as a cushion material in packing, padding, and crating, where a moderate breaking strength is required.
Type III: For use as a cushion material for cushion material for packing and crating where a high breaking strength is required, such as cush-ioning against shock. It may also be used for insulating purposes. Type IV: For packing, padding, and crating where a firm and crating where a firm and semi-hard material is required. Other appli-cations are: Polishing, resistance to impact, bumpers & vibration cushioning, Type V: For use as a soft, springy cushion under carpets and ruse. and rugs.

NOMENCLATURE	Fiber	We Oz/S	ight iq Yd	Width	Bracking Strength Min.	Tenelle Strength Min.	Splitting Resistance	Thickness inch	Water Absorption	
					(5100)	(5100)				
Felt Sheet (Hair) and Felt Roll (Hair) C-F-202c (Cont'd)		Min	Mex		LW					
C-1-5056 (coat.a)								(nominal)		
Type IV- Felted & fulled process Class 1- Untreated Class 2- Neutralize	∍d	27 40 54 67 81 108 162 216	35 52 70 87 125 140 210 280	,			4 1b. 4 1b. 4 1b. 4 1b. 4 1b. 4 1b. 4 1b. 4 1b.	1/8 3/16 1/4 5/16 3/8 1/2 3/4		
Type V- Felted process, burlap core		29 36 43 57	35 44 53 71					3/16 1/4 3/8 1/2		

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-202c (Cont'd) Type IV Class 1 Class 2 Type V	For additional information see	. р. 296.		

NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Wool Fiber Con-	Ash Con- tent
		Min Max		L W	(3100)	l			tent	Max.
Presed C-F-2060, Amd. 1		(1bs.)	(min.)	LIW	(psi)	(15/2")	(Nominal)			
Type I- Mechanical- roll felts	Fleece, pulled wool, wool noil, reprocessed wool, reused wool or a									
188	combination thereof.	2.15 2.35 3.23 3.53 4.30 4.70 5.38 5.88 6.45 7.05 8.60 9.40	ତ <b>ତ</b> ତ ତ ତ		600 600 6€) 500 600	35 35 35 35 35 35	1/8 3/16 1/4 5/16 3/8 1/2		95% 95% 95% 95% 95% 95%	15%
16R 1X		0.712 0.788 0.937 1.013 1.162 1.238 1.387 1.463	60 or 77	2	500 500 500	-	3/ <i>6</i> 4 1/16 5/ <i>6</i> 4 3/32		95% 95% 95% 95%	144
16R 3X (Continued)		0.712 0.788 0.937 1.013 1.162 1.238 1.387 1.463	60 or 7	2	300 300 300 300		3/64 1/16 5/64 3/32		92% 92% 92% 92%	255 255 255 255

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b Type I 18R 16R 1X 16R 3X (Continued)	Ammunition felt: (5) Organic acidity of extract calculated as acetic acid shal not exceed 0.12%. When spec- ified, the felt shall be given a mildew resistant treatment in accordance with MIL-T-2312. When specified, felt shall be given a properly applied sili- coflucride moth-repellent treatment in order that the felt will leave 0.5 - 0.65% by weight of silicofluoride as a nonsubliming silicofluo- ride. pH: 7.0 ± 1.0.		(6)	Intended Use (suggested)—18R: For use where a hard, high grade felt possessing long wearing properties is desired. 16R1x: For ball & roller bearing oil retainer washers and small dust excluding washers. Also for mechanical purposes where an accurate, thin, smooth, high-grade felt is required. 16R3x: For the same purposes as 16R1x, but in installations where tolerances & length of life are not as important. Also for thin cut parts such as gaskets and liners.

NOMENCLATURE	Fiber	Welg Oz/Sq		Width Inch	Breaking Strength Min. (5100)	Tenelle Strength Min. (5100)	Splitting Resistance	Thickness inch	Water Absorption	Wool Fiber Con- tent	Ash Con- tent Max.
Pelt, Sheet, Wool, Pressed C-F-206b (Cont'd Type I- Nechanical		Min (1b		(min.)	LW	(pe1)	(17/2")	(Nominal)			
roll felts		11.40	1.05 2.10 3.15 4.20 5.25 6.30 8.40 10.50 12.60 14.70 16.80	8888888888		500 500 500 500 500 500 500 500 500 500	33 33 33 33 33 33 33 33 33 33 33	1/16 1/8 3/16 1/4 5/16 3/8 1/2 5/8 3/4 7/8		95% 95% 95% 95% 95% 95% 95% 95% 95%	<b>安安安安安安安安安</b>
1682 (Continued)		11.40	1.05 2.10 3.15 4.20 5.25 6.30 8.40 10.50 12.60 14.70 16.80	88888888888888888888888888888888888888		500 500 500 500 500 500 500 500 500 500	26 26 26 26 26 26 26 26 26 26 26 26 26 2	1/16 1/8 3/16 1/4 5/16 3/8 1/2 5/8 3/4 7/8		95% 95% 95% 95% 95% 95% 95% 95% 95% 95%	តិតិតិតិតិតិតិតិតិតិតិតិតិ

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd)		Color- 16R1- White.	(6)	Intended Use (suggested)-

C-F-206b (Cont'd) Type I 16R1 16R2

(Continued)

Color- 16R1- White. 16R2- Any, except gray or black. Intended Use (suggested)—
16R1: For oil retention in
installations where the felt
is not compressed, for feeding low viscosity or light
oil, and where unusual strength and hardness are required.
Washer; bushings; wicks; ink
rolls and pads; dour bumpers;
polishing blocks; wheels &
pads; grommets; window
channels; resilient mountings, anti-vibration and
dampening pads; and parts
where wear & resistance to
abrasion are required; are
typical uses. 16R2: For vibration mountings, oil and
grease shields, and the same
general purposes as 16R1,
where a felt of slightly
lower quality is satisfactory.

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NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width inch	Breaking Strength Min.	Tensile Strength Min.	Splitting Resistance	Thickness inch	Water Absorption	Wool Fiber Con-	Ash Con-
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	* /	l i	_	(5100)	(5100)			İ	tent	Max.
Presed C-F-206b (Cont'd)		Min Max		LW						
Type I- Muchandeal roll felts		(1bs.)	(E:, ~ )		(pai)	(1b/2")	(r sinal)			
16R3		1.90 2.10	60		400	<b>2</b> 2	1/8		90%	2
		2.85 3.15 3.80 4.19	60		400 400	22	3/16		90% 90% 90% 90% 90% 90% 90%	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		4.75 5.24	60 60 60		400	22 22	1/4 5/16		90%	22
		5.70 6.29	60		400	22	3/8		90%	2
		≦0 8 <b>30</b>	60		400	22	3/8 1/2 5/8		90%	2
		9.50 10.49 11.4 12.59	60		400	22 22	5/8		90%	2
		11.4 12.59	60		400	22	3/4		90%	2
		13.30 14.69 15.20 16.79	60 60		400 400	22. 22	7/8		90%	24
		15.20 10.19	00		(a)	22	1		90%	22
12R3X		0.712 0.788	60 or 7	2	200	•	1/16		754	34
		1.087 1.163			200		1/16 3/ <b>3</b> 2		75% 75%	3% 3%
12R1		1.45 1.61	60 or 7	2	40C	18	1/8		95%	25
(Continued)		2.17 2.41	60 or 7		400	18	3/16		95%	2% 2% 2% 2% 2% 2% 2% 2%
		2.90 3.22 3.62 4.02	60 or 7		400	18	1/4 5/16		95%	29
		3.62 4.02	60 or 7		400	18 18 18 18	5/16		95% 95% 95% 95% 95% 95% 95%	2%
		4.35 4.83 5.80 6.44	60 or 7		400	18	3/8 1/2		y5%	2%
		5.80 6.44 7.25 8.05	60 or 7		400 400	18 18	1/2		95%	29
		7.25 8.05 8.70 9.66	60 or 7		400	18	5/8 3/4		95% 95¢	29
		10.15 11.27	60 or 7		400	18	7/8		954	20
		11 60 12 88	60 or 7		400	18	۱ ''		054	24

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type I 16R3 12R3X 12R1 (Continued)		Color- 16R3- Gray. 12R3X- Gray or Black. 12R1- White.	(6) (a) Felt for ammunition of 1/16 and 3/32 in. thickness shall have a min. tensile strength of 125 psi.	Intended Use (suggested)- 16R3: For ammunition compon- ents. For aircraft applica- tions; between rocker arm covers of engines, ring cowlings, radio cushion strips retaining and feed- ing oil under difficult conditions, washings & bushings. 12R3X: For anti- squeak strips and for lining when cemented to fiber board or metal panels. 12R1: For dust shields, wipers, grease retainer wash- ers, wicks, vibration mount- ings, and uses where a resilient felt is required.

NOMENCLATURE	Fibor	Weig Oz/Sq		Width Inch	Breaking Strength Min. (5100)	Tenelle Strength Min. (5100)	Splitting Resistance	Thickness inch	Wuter Absorption	Wool Piber Con- tent	Ash Con-
Pelt, Sheet, Wool, Presend (Cont'd) C-F-200b		Min )	Max	(min.)	r į w	(pei)	(JP/5 _e )	(nominal)		*	
Type I- Mechanical- roll felts											
1282			1.61 2.41 3.22 4.02 4.83 6.44 8.05 9.66 11.27 12.88	88888888888888888888888888888888888888		215 215 215 215 215 215 215 215 215 215	16 16 16 16 16 16 16 16	1/8 3/16 1/4 5/16 3/3 1/2 5/8 3/4 7/8			*******
1283 (Continued)			1.61 2.41 3.22 4.02 4.83 6.44 8.05 9.66 11.27 12.88	72 72 72 72 72 72 72 72 72 72 72		250 250 250 250 250 250 250 250 250 250	12 12 12 12 12 12 12 12 12	1/8 3/16 1/4 5/16 3/8 1/2 5/8 3/4 7/8		80% 80% 80% 80% 80% 80% 80% 80%	************

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES
		COCOMPASTNESS		(Not Specification Sequirements)
C-F-206b (Cont'd)		Color- 12R2- Gray. 12R3-	(6)	Intended Use (suggested)-

Type I 12R2 12R3 (Continued)

12R2 and 12R3; For dust shields, grease retainer washers, wicks, vibration mountings, and uses where a resilient felt is required.

NOMENCLATURE	Fiber	Web Oz/Sc		Width Inch	Breaking Strength Min.	Tensile Strength Min.	Splitting Resistance	Thickness Inch	Water Absorption	Wool Fiber	Ash Con-
	- Van i i i i			1	(5100)	(5100)				Con- tent	Max.
Pelt, Short, Wool, Present (Cont'd)		Mie	Mox		LW						
C-7-2000		(16	s.)	(min.)		(psi)	(1bs/2")	(nominal)			
Type I- Nuchanical- wool felts											
9R1		0.60	0.70	72		225	8	1/16		95\$	2
9R2		0.98	1.14	72		200	6	1/16 1/8 3/16		92%	3%
9R3		2.45	2.85	72		100	3	1/4 5/16		85%	31%
984		3.92	3.42 4.56	72		75	2	1/2		75\$	3 <del>2</del> \$
9R5		1.96 2.45 2.94 3.92 4.90 5.88 6.86 7.84	5.70 6.84 7.98 9.12 18.24	72		75	2	5/16 3/8 1/2 5/8 3/4 7/8		55\$	4%
SR5 (Continued)		0.81 1.62 2.43 3.24 4.86 6.48	0.99 1.98 2.97 3.96 5.94 7.92	72 or 30 72 or 30 72 or 30 72 or 30 72 or 30 72 or 30	<b>5</b> <b>5</b> <b>5</b>			1/8 1/4 3/8 1/2 3/4		45% 45% 45% 45% 45%	5% 5% 5% 5% 5%

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type I 9R1 9R2 9R3 9R4 9R5 6R5 (Continued)	SRI-SR5: The felt shall be mildew treated according to MIL-T-2312, except that complete penetration of the treatment shall not be required, and that the contractors shall certify the amount and kind of inhibitor which was applied.	Color- 9R1- White. 9R2- Gray. 9R3- Gray. 9R4- Gray. 9R5- Gray. 8R5- Gray.	(6)	Intended Use (suggested)- 9R1, 9R2, and 9R3: for grease and oil retention where the felt is confined and com- pressed in assembly. Also recommended for dust shields under less severe operating conditions, where 12R1, 12R2, and 12R3 are not required. 9R4 and 9R5: for sound deadening, chassis strips, spacers, dust shields, pedal pads, dash liners, and for mechanical purposes where abrasion and wear are not important fac- tors. 6R5: for packing and padding when held in place between other materials. This grade should not be used for mechanical purposes.

NOMENCLATURE	Fiber	Wai Oz/S		Width	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Wool Fiber Con- tent	Ash Con- tent Max,
Pelt, Sheet, Wool, Presed (Cont'd)			Max be.)		LW	(pei)	(15/2")	(nominal)	(Water Thickness	(min)	
Type II- Sheet felt	Flace, pulled wool, wool neil, reprocessed wool, reused wool, or	2.80 4.20 5.60	3.20 4.80 6.40			460	18	1/4 3/8 1/2	Swell Max.) 20%	95\$	135
12 <b>-</b> 5 1	a combination thereof. Grades of wool: Class	7.05 8.50	7.95 9.50			300	16	5/8 3/4	25\$	95\$	12%
2	l: Fine Spanish or its equivalent, com-	9.95 11.40	11.05 12.60			300	12	7/8 1	30%	95\$	25
3	posed of white wool, U.S. Standard 62's or finer: scowed, car-	14.30 17.20 20.10	15.70 18.80 21.90			300	10	1-1/4 1-1/2	30%	95\$	2 <del>] \$</del>
4	bonised, dusted, neu- tralized, depitched, and depainted.	23.00 28.95 34.90	25.00 31.05					1-3/4 2 2-1/2 3			
16-8	Class 2; Spanish, or										
i	its equivalent, com- posed of white wools,	1.90 2.85	2.10 3.15			500	32	1/8 3/16	25\$	95\$	12%
2	U.S. Standard 58's or finer; scoured, car-	3.70 5.60	4.30 6.40			400	28	1/4 3/8	30%	95\$	12%
3 h	bonised, dusted, and neutralized.	7.50 9.40	8.50 10.60			400	22	1/2 5/6	35≸	95≸	2\$
(Continued)	Class 3: Maxican or its equivalent, com- posed of wool, 75% U.S. Standard 56's or finer, 25% U.S. Stan-	15.20				300	20	3/4 7/8 1 1-1/4 1-1/2 1-3/4	35\$	95%	양
	dard 48's or finer; scoured and dusted.	38.80 38.75	33.20 41.25 49.30					2-1/2			

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type II 12-S 1 2 3 4 16-S 1 2 3 4 (Continued)		Color- 12-8 1- White, 2- White, 3- White, 4- White. 16-8 1- White, 2- White, 3- White, 4- White. Other colors are manufactured on order.	(6)	Intended Use (suggested)— 168: For use as medium density polishing wheels and buffs for precious metal and plastic polishing, metal wiping, drum beaters; also drilled wicks, bearing seals, shoe rolls (stank), fluid transfer rolls, oil and fluid wicks, grease and oil retaining washers, ink rollers, wibration and shock mountings, bumpers, plugs, glass channels. 12-5: For use as soft density polishing wheels and buffs for polishing plastic, polishing and wiping brass; also for piano wedge, surgical pads, punched wicks, dampeners, absorbent pads, oil and fluid retainers, fluid transfer rolls, bearing seals, washers, wicks, shim and spacer pads, shoe insoles, dust shields, anti-vibration pad.

NOMFHICLATURE	Fiber	Oz/So		Width Inch	Breaking Strength Min. (5100)	Tuncile Strength Min. (5100)	Splitting Rhaistance	Thickness Inch	Water Absorption	Wool Fiber Con- tent	Ash Con- tent Max.
Pult, Sheet, Wool Pressed (Cont'd)		Min (22	Mex		LW	(psi)	(lb/2")	(nominal)	(Water Thickness Swell Max.)	(min)	
Type II- Sheet felt 20-5	Class 4: Course Hexi- can, or its equiva- ment, composed of wool,										
1	60% U.S. Standard 50's or finer, and 40% U.S.	2.20	2.80			600	44	1/8 3/16	30%	95%	12%
2	Standard 44's or finer.	4.60	5.40			500	40	3/16 1/4 3/8	40%	95\$	12%
3			10.60			400	36	1/2	50%	95\$	2%
•		14.20 16.60 19.00 23.90 28.80 33.70 38.60 48.55	18.40 21.00 26.10 31.20 36.30 41.40			300	35	5/8 3/4 7/8 1 1-1/4 1-1/2 1-3/4 2 2-1/2	50%	95\$	2½\$
26-8 1		2.85	3.65			600	48	1/8	40%	95%	-14
_		4.40	5.40			•		3/16	<b>4∪7</b> 0	9070	12%
2		5.90 8.95	7.10 10.55			500	46	1/4 3/8	50%	95%	13%
3		12.00	14.00			400	40	1/2 5/8	60%	95\$	2%
(Continued)		18.30 21.45 24.60 31.00	20.70 24.05 27.40 34.00 40.60 47.20			400	30	3/4 7/8 1 1-1/4 1-1/2 1-3/4	60%	95%	2 1 1 5

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type II 20-S 1 2 3 4 26-S 1 2 3 4 (Continued)		Color- 20-S 1-White, 2-White, 3-White, 4-White, 26-S 1-White, 2-White, 3-White, 4-White. Other colors manufactured on order.	(6)	Intended Use (suggested)- 20-S: For use as medium-hard density polishing wheels and buffs for polishing lenses, mirrors, and glass, marble and granite; also for fluid transfer rolls, ink rolls, (securing), furniture rub- bing, rough metal polishing, metal wiping, drilled wicks, bearing seal washers, stamp pads, cushioning under sand paper. 26-S: For use as hard density polishing wheels for glass sheet, glassware, ophthalmic lense polishing, metal and metall- ographic polishing, wood polishing and furniture rubbing; also for block cutters, print rolls, cash carrier heads, points for making pens, casters, boot and shoe soles, artificial limts.

NOMENCLATURE	Fiber	02/5		Width	Breaking Strength Min. (5100)	Tensile Strangth Min. (5100)	Splitting Resistance	Thickness Inck	Water Absorption	Mool Fiber Con- tent	Ash Con- tent
Pelt, Sheet, Wool, Pressed (Cont'd) C-F-206b Type II- Sheet			Max		L W	(psi)	(15/2")	(nominal)	(Water Thickness Swell Max.)	(min)	
felt											
32 <b>-</b> S 1		3.50	4.50			600	50	1/8	50%	95\$	135
•		5.25	6.75				-	3/16			
2		7.00	9.00			500	48	1/4 3/8	60%	95\$	1
3		10.90 14.80	13.10 17.20			400	46	1/2	70%	95\$	25
		18.70	21.30					5/8			-14
l,		26.50 30.40 38.30 46.20 54.10	33.60			400	40	3/4 7/8 1 1-1/5 1-1/2 2-3/4 2	70 <b>\$</b>	95\$	211
Type III- Roll-felt											Wool
(apparel & decora-		(0	z)	(min)							Grade Min.
tive) 11A2	Fleece, pulled wool, wool noil, reprocessed	2.92	3.15	80	-			0.030		20%	48's
	wool, reused wool or			90				2 020		20%	48's
1191	a combination thereof.	2 <b>.92</b>	3.15	80	•			0.030		207	40.8
10A2		5.75	6.25	72	8			0.065		45\$	48's
10Al (Continued)		5.75	6.25	72	10			0.065		35%	48'5

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type II 32-S 1 2 3 4 Type III 11A2 11A1 10A2 10A1 (Continued)		Color- 32-S 1- White, 2- White, 3- White, 4- White. Other colors manufactured on order. 11A2- Gray. 11A1- White. 10A2- Gray. 10A1- White.		Intended Use (suggested)— 32-S: For use as extra-hard density polishing wheels an buffs in dental, jevelry, glass, and lapidary polishing; also hard washers, bumpers, and casters. 11Al and 11A2: For use in fronts of coats to give required fullness and drape to outer fabrics. 16Al and 10A2: For use as a lining material in outer wear garments. Also as a lining on inside of shoe tongues, gen erally white in color. Backing for household objects to prevent scratching or marking furniture.

NOMENCLATURE	Fiber	Wei Oz/Si	ght g Yd	Width Inch	Breaking Strength Min. (5100)	Tensile Strength Min. (5100)	Splitting Resistance	Thickness Inch	Absorption	Wool Fiber Con- tent	Wool Grade Min.
Felt, Sheet, Wool,		Min	Mex		LW				L	CENC	Fun.
Pressed (Cont'd) C-7-2060		,	•	(min)	·			(nominal)			
Type III- Roll-felt (apparel & decors- tive) 982		6.75	7.25	72	10			0.075		l. cal	
										45%	48 <b>'</b> s
8A1		7.50	8.50	72	30			0.040		95\$	58's
7AL		9.25	10.75	60	45			0.040		95%	62's
6A1		11.00	13.00	72	30			0.063		95\$	62's
		(1)	bs.)								
541			1.06 2.13 3.25 4.25	72 72 72 72				0.125 0.250 0.375 0.500		35% 35% 35% 35%	56's 56's 56's 56's
441		0.50 1.00 2.875	0.56 1.12 3.125	36 72	20 45 175			0.063 0.125 0.375		50% 50% 50%	56's 56's 56's
3A1		6.50	7.80	60x40 sheets				0.250		95\$	56's

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
C-F-206b (Cont'd) Type III 9A2 8A1 7A1 6A1 5A1 4A1 3A1		Color- 9A2- Gray. &A1- White & all colors. 7A1- White & all colors. 6A1- White & all colors. 5A1- White. 4A1- White. 3A1- Gray.	(6)	Intended Use (suggested)- 9A2: For use as lining mat- erial in outer wear garments. 8A1: For use as undercollar cloth and in face mask. 7A1: For use in garment decora- tion, and as background for embroidered designed hat bodies. 6A1: For use in gar- ment decoration and in mili- tary insignia; for face masks and auto flags. 5A1: For use as padding on ortho- pedic and truss appliances, and as athletic equipment padding. 4A1: Can be pulled down in layers to graduated thicknesses needed for medi- cal requirements. 3A1: For use in footwear, boots, etc., as lining or inserts.

NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width	Breaking Strength Min.	Tenelle Strength Miss.	Splitting Resistance	Thickness Inch	Water Absorption	
				(5100)	(5100)				
Felt, Cattlebair or Wool: Mildey Resistant		Min Max		LW					

modification Resistant, and Moisture Resistant, Treated MIL-7-2312C, Amd. 1

> Type I- Mildev resistant

Felts shall be in accordance with those of the applicable felt spec, C-F-202 or C-F-206, as specified.

Type II- Moisture resistant

Type III- Hildev resistant and moisture resistant

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MIL-F-2312C Type I Type II Type III	(5) Type I: Unless otherwise specified, felt shall be treated with 2,2' methylenebis-(4-chlorophenol) or salicylantlide. Felt shall be well penetrated by inhibiting agent, and there shall be no noticeable crystallization of the innibitor on the felt surface. Finished felt shall contain 1-2% of 2,2' methylenebis-(4-chlorophenol) or 0.5-1% of salicylanilide. Type II: Unless otherwise specified, felt shall be treated with a wax or metallicalt wax compound or emulsion. The treated felt shall show no more than a 50% increase in weight. Type III: Felt shall be treated with a combination or Type I and Type III treatments. Types II and III treated relt shall be allowed to reach equilibrium prior to testing for moisture registance.	Color- When undyed felt is specified, color of the treated felt may deviate from the natural state to that degree imposed by the color of the treating agent used. Color of dyed felt, prior to the application of the finis shall, unless specified otherwise, match the standard sample. When dyed felt is specified, the color of the treated felt shall be that resulting from the combination of the base color and the color imparted by the finishing compound.	A plus tolerance of 7\$ in weight shall be allowed for the Types I, II, and III treated felt based on the max. specified for the untreated felt.	

Tarn, Wool. Mie Max L W	NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width Inch	Breaking Strength Min. (5100)	Tenelle Strength Min. (5100)	Splitting Resistance	Thickness Inch	Water Absorption	Wool Content Min.
NII-Y-16654C	Yarn, Wool MIL-Y-1665AC		Min Max	L		1	L	l	L,i	

Type I- White or dyed

Type II- Natural

Piece wool, pulled wool, or any combination thereof .ot lower in grade tha \ 56's US Standard. Use of noils or laps is prohibited. Yarn shall be spun on worsted system from combed top on either the Bradford, French, the Bradford, French, or American system. Yarn shall be not finer than 8's 4-ply or coarser than 7's 4-ply. Twist shall be soft, with 5 (45%) turns per inch in the single yarn & 2 (45%) turns per inch in ply yarns.

IENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NCTES (Not Specification Requirements)	
16654C		Color- Type I: (1)- Stan-		Intended Use- Type I: For	

MIL-Y-16

NOME

card sample available (3). When white is specified, the yarn shall be bleached using hydrogen peroxide. Unless otherwise speci-fied, white yarn shall fied, white yarn shall not be treated with an optical bleach. In the event, however, than an optical bleach is specified, or permitted, it shall be so selected that the finished yarn snows no discoloration (4660). Type II: Shall be natural, undyed, unbleached, and not chemically processed. Colorfastness- Type I: Standart sample available (4660-4614).

intended Use- Type I: For hand weaving and textile work in occupational therapy. Type II: For lubricating purposes.

95\$

95\$

NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width	Breaking Strength Min. (5100)	Tenelle Strength Min. (5100)	Splitting Resistance	Thickness inch	Water Absorption	
Yarn, Cotton MIL-Y-16696B	Cotton. Tarn shall be carpet warp 8/4 ply ± 3%, 6-7½ turns per in. of "8" twist in the ply.	Min Max		L   W (\$100) (Plied)					•

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MII-Y-16698B		Color-Shall be natural, bleached white, or color, as specified, and shall conform to the approved shade standard (3). When white is specified, the yarm shall be bleached using a peroxide type bleach. No tinting is permissible, and the use of optical bleaches is not permitted. When natural is specified, the yarm shall be a natural shade (9). Colorfastness-Standard sample available (4610).		Intended Use- For hand weaving in occupational therapy.

NOMENCLATURE	Fiber	Wel Oz/Sc		Width	Breaking Strength Min. (5100)	Teneile Strength Min. (5100)	Splitting Resistance	Thickness	Water Absorption	Compress- ibility Min.
Felt, Sheet, Wool, Compound Impregnated, Chock Fadding RII-F-17057A (MEP)	Carrier shall be wool	0.80	1.40	(1)	L W (4.4.7) (1be/2") 15			(nominal) 1/16	Increase (max.) 50%	(a) 50%
	felt sheet conforming to Type I, classifi- cation 885 of C-F-206.	1.45 2.25 3.00	2.20 2.95 3.80	(1) (1) (1) (1)	30 45 60			1/16 1/8 3/16 1/4	(max.) 50% 50% 50% 50%	(a) 50% 45% 40% 35%

NOMENCLATURE HIL-F-17057A	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MIL-F-17057A	Carrier shall be impregnated with a nondrying, nonoxidizing, water resistant, fungus resistant, anticorrosive, chromated compound with a min. softening point of 165°F (74°C). The fungus resistant agent (which may be impregnated separately) shall be copper-8-quinolinolate, applied in solubilized or emulsion form, to provide a concentration of 0.15±.05% copper in the dry treated materials. The impregnated felt sheet shall be coated on 1 side only with adhesive of the solvent-activated or of the pressure sensitive type. The adhesive shall provide the required bond without the use of auxiliary stapling. Impregnating compound to carrier weight ratio shall be not less than 0.40. Impregnated felt sheet shall show no evidence of extrusion of		(a) After acc. aging test. Impregnated felt sheet shall not become hardened or impaired in a manner that would affect its serviceability after acc. aging (h,h,l0). Corrosion protection: Impregnated felt sheet shall allow no corrosion of the metallic surfaces with which it is in contact (h,h,l2). Impregnated felt sheet shall remain pliable without breaking or delaminating (h,h,l3). Impregnated felt sheet shall show no visible evidence of fungus growth (h,h,l4). Impregnated felt sheet shall have no detrimental effect on painted or lacquerel surfaces (h,h,l6). Adhesive bond between impregnated felt sheet and surface to which it is applied shall be greater than the cohesive strength of the impregnated felt sheet (h,h,l7).	Intended Use- To be applie to chock surfaces in such a way that, interposed between the chock and the part to be supported, it affords padding and anti- corrosive protection.

NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width	Breaking Strength Min.	Tenelle Strength Min.	Splitting Resistance	Thickness Inch	Water Absorption	
				(5100)	(5100)				
Padding and Cover Set,		Min Max		LW					

Asbestos, Flatvork Iroser Roll NII-P-43219

Padding

A felted, wowen, or mitted material of min. of 75% asbestos. Balance shall be cotton, a synthetic, or a mixture of cotton and a synthetic.

Sufficient for 1 wrap around the roll. Such a trick-ness that when binder, padding, & cover are installed on roll, caliper of entire assembly shall meet max, limits recommended by manufacturer of flatvork ironer.

Binder

Uncoated asbestos.

See above for fiber content.

Liner

Woven asbestos cloth. See above for fiber

content.

Sufficient to wrap tne roll.

Cover

Woven asbestos cloth. Min. 80% asbestos. Balance as above. Costed or impregnated with thermosetting resin. Shall not stain or mar appear-ance of articles pro-cessed through ironer.

190 152 (initial) 50% 50% (after heat aging)

71 123

NOMENCLATURE	FINISH	SHADE AND COLORFASTNESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MIL-P-\3219				Intended lies. For computer

2, 4, 6, and 8 roll flatwork ironers.

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NOMENCLATURE	Fiber	Weight Oz/Sq Yd	Width	Breaking Strength Min.		Splitting Resistance	Thickness inch	Water Absorption	ssion
*				(3100)	(5100)	Ì			Defor- Resil- mation ience
Pad, Lithographic	0.4.	Min Max		LW					
Mate Solution	Cotton. Use of resins or other binding mat- erial is prohibited.	Ave: 23 gr.	Pad: 4x3-3/4 +1/4					30 sec. max. for complete subsersion of the pad.	
Felt, Sheet, Bylon, Box-Hoven (Meedle Funched)									
Type I	Mylon. Use of regen-	13.0 -	(min) 5k	10 10			0.130		(max.) 32% 70%
Type II	erated or reprocessed mylon is prohibited.	18.0 -	54	10 10			0.180		324 70%
Type III	Molting point: 250°C.	29.0 -	54	40 40			0.310		32% 70%

NOMENCLATURE	Finish	SHADE AND COLORFASTHESS	OTHER REQUIREMENTS	NOTES (Not Specification Requirements)
MIL-P-43296	(5) When sample is tested for dextrin or starch, no blue or violet color shall develop (4.2.2). pH: 5.0 - 8.0 (2811).			Intended Use- As applicators or wipes for lithographic, off-set, and/or duplicating plates.
MIL-F-43310 Type I Type II Type III	The staple or felt shall be heat treated. Finished felt shall show a dimensional change of not more than $3\%$ in either length or width $(k,k,k)$ .	Color- Shall be natural.	Finished felt shall lose not more than 50% of its breaking strength after acc. aging (4.4.3).	Intended Use- As padding for laundry presses.

#### REFERENCES

### NON-WOVEN TEXTILE NATERIALS

### Textile Test Nothods - CCC-T-191b

A CLICA	5.5 VOID
	Chemical
2811	Acidity (pH), Potentionstric method.
	Mechanical
4100 4104 5100	Strength and elongation, breaking; yarn; single strand. Strength, breaking yarn and thread skein. Strength and elongation, breaking, of woven cloth, grab method.
	Air Permeability and Water Resistance
5508	Dry cleaning solvent resistance of water-resistant finish, tumble jar.
	Colorfastness
4610 4614 4660 5630 5651	Colorfastness to laundering; cotton and linen yarn, thread and cordage; Colorfastness to laundering; wool, silk, and rayon yarn, thread, and cordage; Launder-Ometer method. Colorfastness to light; yarn, thread, cordage; accelerated method (Fade-Ometer). Water, cold.  Crocking of cloth.

Security Classification	_			
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1. ORIGINATING ACTIVITY (Compress audior)			SECURITY CLASSIFICATION	
Clothing & Organic Materials Laboratory			Assified	
U.S. Army Matick Laboratorie	es, Natick, Mass.	28. SROUP		
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4. DESCRIPTIVE NOTES (Type of report and inc Revised Report Decem				
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II. SOFFEEMEN IANT IICIES				
n/a		U.S. Army Natick Laboratories Natick, Massachusetts 01760		
18. ABSTRACT		•		
Specification requirement	ents for military fabric	s and relate	ed military textile	
materials such as felts and	cordage are summarized	in tables w	hich give details for	
yarn, texture, finish and ke	y performance parameter	s. Include	d are finishing.	

after-treatment specifications and test methods.

This report brings up-to-date and adds to the data contained in Textile Series Report No. 102 dated December 1957 (Revised).

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#### SUPPLEMENT

### SUMMARY OF SPECIFICATION REQUIREMENTS

### FOR MILITARY FABRICS

AD-658048, Technical Report 68-9-CM 28-102 (Revised), dated July 1967

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Cloth, Coated, Rubber, Nylon Base, Amd. 1	HIL-C-7966A	Nov. 1962	140
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Cord, Nylon, Coreless, Amd. 1	MIL-C-7515C	Jul. 1965	219
Cord, Nylon, Solid Braid, General Purpose, Amd. 1	MIL-C-43307	Jul. 1965	227
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Rope, Nylon, Braided, Tubular, Spliceable	MIL-C-17183A	Feb. 1956	220
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Twine, Impregnated, Lacing and Tying, (For Use in Electrical and Electronic Equipment) Twine, Jute, And. 2 Twine, Linen Twine, Linen (Waxed and Blocking)	MIL-T-713C T-T-911d T-T-891c MIL-T-2520B	Jun. 1964 Aug. 1966 Jan. 1965 Jan. 1964	206 210 209 214
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Purpose Natural or in Colors, Amd. 2	MIL-W-530D	<b>May 196</b> 5	254

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Webbing, Textile, Woven, Low Elongation, And. 1 Webbing, Textile, Woven Nylon, And. 3 Webbing, Textile, Woven Nylon, And. 3 Webbing, Woven, Nylon  IX. NATURAL FIBERS OTHER THAN COTTON AND WOOL  Cloth, Burlap, Jute (or Kenef) Cloth, Thread, and Tape; Asbestos  CCC-C-467b SS-C-466e Jul. 1965 290 SS-C-466e Jul. 1964 287  X. NON-WOVEN TEXTILE MATERIALS  Cloth, Cleaning, Nonwoven Fabric, And. 1 Felt, Cattlehair or Wool: Mildew Resistant, and Noisture Resistant, Treated, And. 1 MIL-F-2312C Mar. 1966 307		MIIL-W-4576	Oct. 1960	262
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Webbing, Textile, Woven Nylon, Amd. 3  Wil-W-4088E  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-17337A  MIL-W-		MIL-W-10828C	Sep. 19 🕏	274
Webbing, Woven, Nylon  MIL-W-17337A  Jul. 1965 275  IX. NATURAL FIBERS OTHER THAN COTTON AND WOOL  Cloth, Burlap, Jute (or Kenef) Cloth, Thread, and Tape; Asbestos  CCC-C-467b SS-C-466e  Jul. 1965 290 SS-C-466e  Jul. 1964 287  X. NON-WOVEN TEXTILE MATERIALS  Cloth, Cleaning, Nonwoven Fabric, Amd. 1 Felt, Cattlehair or Wool: Mildew Resistant, and Noisture Resistant, Treated, Amd. 1  MIL-F-2312C  Mar. 1966 307	Webbing, Textile, Woven Mylon, Amd. 3	MIL-W-4088E		261
Cloth, Burlap, Jute (or Kensf) Cloth, Thread, and Tape; Asbestos  X. NON-WOVEN TEXTILE MATERIALS  Cloth, Cleaning, Nonwoven Fabric, Amd. 1 Felt, Cattlehair or Wool: Mildew Resistant, and Noisture Resistant, Treated, Amd. 1  MIL-F-2312C  May 1965 290  CCC-C-466e  Jul. 1964 287  CCC-C-468  Dec. 1961 293  Felt, Cattlehair or Wool: Mildew Resistant, and Noisture Resistant, Treated, Amd. 1  MIL-F-2312C  Mar. 1966 307		MIL-W-17337A	Jul. 1965	275
Cloth, Burlap, Jute (or Kensf) Cloth, Thread, and Tape; Asbestos  X. NON-WOVEN TEXTILE MATERIALS  Cloth, Cleaning, Nonwoven Fabric, Amd. 1 Felt, Cattlehair or Wool: Mildew Resistant, and Noisture Resistant, Treated, Amd. 1  MIL-F-2312C  May 1965 290  CCC-C-466e  Jul. 1964 287  CCC-C-468  Dec. 1961 293  Felt, Cattlehair or Wool: Mildew Resistant, and Noisture Resistant, Treated, Amd. 1  MIL-F-2312C  Mar. 1966 307		, , , , , ,		
Cloth, Thread, and Tape; Asbestos  SS-C-466e  Jul. 1964 287  X. NON-WOVEN TEXTILE MATERIALS  Cloth, Cleaning, Nonwoven Fabric, Amd. 1  Felt, Cattlehair or Wool: Mildew Resistant, and Noisture Resistant, Treated, Amd. 1  MIL-F-2312C  Mar. 1966 307	IX. NATURAL FIBERS OTHER THAN COTTON AND WOOL			
X. NON-WOVEN TEXTILE MATERIALS  Cloth, Cleaning, Nonwoven Fabric, Amd. 1 CCC-C-46a Dec. 1961 293  Felt, Cattlehair or Wool: Mildew Resistant, and Noisture Resistant, Treated, Amd. 1 MIL-F-2312C Mar. 1966 307				
Cloth, Cleaning, Nonwoven Fabric, Amd. 1 CCC-C-46a Dec. 1961 293 Felt, Cattlehair or Wool: Mildew Resistant, and Noisture Resistant, Treated, Amd. 1 MIL-F-2312C Mar. 1966 307	Cloth, Thread, and Tape; Asbestos	SS-C-466e	Jul. 1964	287
Cloth, Cleaning, Nonwoven Fabric, Amd. 1 CCC-C-46a Dec. 1961 293 Felt, Cattlehair or Wool: Mildew Resistant, and Noisture Resistant, Treated, Amd. 1 MIL-F-2312C Mar. 1966 307				
Felt, Cattlehair or Wool: Mildew Resistant, and Moisture Resistant, Treated, And. 1 MIL-F-2312C Mar. 1966 307	X. NON-WOVEN TEXTILE MATERIALS			
and Noisture Resistant, Treated, Amd. 1 MIL-F-2312C Mar. 1966 307		CCC-C-46a	Dec. 1961	293
		MIL-F-2312C	Mar. 1966	307
	Felt Sheet (Hair) and Felt Roll (Hair)	C-F-202c	Nov. 1963	296

X. NON-WOVEN TEXTILE MATERIALS continued	Spec. No.	Date	Page No.
Felt, Sheet, Mylon, Non-Woven (Needle Punched) Felt, Sheet, Mool, Compound Impregnated,	MII_F-43310	Feb. 1965	312
Chock Padding	MII-F-17057A	Mar. 1964	310
Felt, Sheet, Wool, Pressed, Amd. 1	C-F-206b	Jul. 1963	298
Pad, Ironing Board, Cotton	DDD-P-55a	Dec. 1961	294
Pad, Lithographic Plate Solution	MIL-P-43296	Dec. 1964	312
Padding and Cover Set, Asbestos, Flatwork			
Ironer Roll	MIL-P-43219	Mar. 1964	311
Padding, Cotton, Stitched Roving	CCC-P-86c	Jan. 1963	294
Rag, Wiping, Cotton	DDD-R-30b	Dec. 1965	292
Waste, Matted Yarns, (Cotton, Colored)	DDD-W-101b	Apr. 1961	295
Yarn, Cotton	MII-Y-16698B	Dec. 1962	309
Yarn, Wool	MIL-Y-16654C	Mar. 1963	308